# APPENDIX B

## DETAILED PROJECT COST ESTIMATES

		Diameter (in)	_		
	Length	or	Construction	Mark-up	Capital
Project ID	(ft)	Facility Type	Cost	Costs	Project Cost
PDLA - A					
Project AAAA	900	24	\$218,072	\$198,428	\$416,500
Project AAA	550	36	\$150,293	\$139,241	\$289,534
Project AC	1000 & 275		\$561,078	\$431,835	\$992,913
Project AFA	2000	Channel	\$26,837	\$64,771	\$91,608
Project AFB	3600	Channel	\$66,071	\$97,093	\$163,164
•				•	\$1,953,719
PDLA - B					
Project B	3000	Channel	\$1,178,489	\$952,728	\$2,131,218
Project BB-1	1100	18	\$176,840	\$158,793	\$335,632
Project BB-2	1700	36	\$413,663	\$336,770	\$750,433
Project BCA	2900	24	\$590,376	\$478,237	\$1,068,613
Project BCB	925	30	\$256,921	\$211,175	\$468,096
Project BCC	925	36	\$279,735	\$232,244	\$511,979
Project BFA	1600	42	\$528,155	\$435,518	\$963,673
Project BFB-U		Channel	\$68,367	\$69,853	\$138,220
Project BFB-L	800	48	\$255,297	\$236,040	\$491,336
Project BF1	N/A	Sed Basin	\$223,827	\$189,156	\$412,983
Project BJ-1	270 & N/A	RCB & Sed Basin	\$276,784	\$223,735	\$500,519
Project BJB	N/A	Outlet Structure	\$77,952	\$75,080	\$153,032
Project BL-U	800	39	\$198,775	\$185,734	\$384,509
Project BL-L	20 & 125	90 & Bridge	\$652,887	\$1,163,214	\$1,816,101
Project BM	260	RCB	\$127,624	\$76,453	\$204,077
Project BNB	3600	84	\$1,876,136	\$1,546,690	\$3,422,826
Project BN	3600	Channel	\$170,056	\$186,617	\$356,673
Project BP	28 & 172	RCB	\$191,371	\$133,963	\$325,334
Project BQ	800	Spot Enhance	\$67,164	\$64,191	\$131,355
Project BR	150	66	\$94,281	\$86,492	\$180,773
					\$14,747,382
PDLA - C	100	DDIDOE	Φ4 00 <del>7</del> 440	<b>04.054.400</b>	<b>#</b> 0 <b>F</b> 40 <b>F</b> 40
Project C1	100	BRIDGE	\$1,667,416	\$1,851,100	\$3,518,516
Project C2	90	RCB	\$259,816	\$467,915	\$727,730
Project CA	600	Concrete Channel	\$191,064	\$338,338	\$529,402
PDLA - D					\$4,775,649
Project DBA	360	30	\$83,448	\$83,767	\$167,215
Project DBB	720	30	\$227,889	\$201,218	\$429,108
Project DFA	N/A	Treatment System	\$109,404	\$147,019	\$256,423
Project DQB	2500	36	\$402,175	\$343,667	\$745,842
Project DH	3111	Spot Enhance	\$114,417	\$118,395	\$232,812
Project DZ	100	RCB (2)	\$415,627	\$226,436	\$642,063
-		, ,	•	•	\$2,473,462

\$23,950,212



Project Number:: 128290

Client:: City of Carlsbad

Estimator(s):: SB / DG

Estimating Office:: Walnut Creek

Estimate Issue Number:: 01

Estimate Original Issue Date:: 3/14/2006

Estimate Revision Number:: 04

Estimate Revision Date:: 6/27/2008

BC Project Manager:: Chris Herencia
Estimate QA/QC Reviewer:: Butch Matthews

Estimate QA/QC Date:: 6/27/2008

#### PROJECT LOCATION/ITEM DESCRIPTION

Project AAA - Located in Basin A

AL REQUIREMENTS  eral equipment rental inch box, 7200 lbs, 6'x 20' inch Plates allowance  GENERAL REQUIREMENTS Total  DINSTRUCTION  erground marking tape derground tape, detectable aluminum, 2"  demolition e dml, no hauling, pavement removal, bit, 4" to 6" thick bhalt disposal - hauling and disposal fee, 4" thick  or cutting w cutting, asphalt, up to 3" deep	6 1 6 427 427	Day Mo	\$0.00 \$0.00	\$0.00 \$0.00 \$0.00	\$0.00 \$0.00	\$0.00 \$0.00	\$141.60 \$900.00	\$849.60 \$900.00	\$141.6 / Day \$900 / Mo			\$849.60 \$900.00
eral equipment rental mich box, 7200 lbs, 6'x 20' mich Plates allowance  GENERAL REQUIREMENTS Total  DINSTRUCTION  erground marking tape derground tape, detectable aluminum, 2"  demolition e dml, no hauling, pavement removal, bit, 4" to 6" thick shalt disposal - hauling and disposal fee, 4" thick	427	Mo	\$0.00	\$0.00		\$0.00		\$900.00				
eral equipment rental mich box, 7200 lbs, 6'x 20' mich Plates allowance  GENERAL REQUIREMENTS Total  DINSTRUCTION  erground marking tape derground tape, detectable aluminum, 2"  demolition e dml, no hauling, pavement removal, bit, 4" to 6" thick shalt disposal - hauling and disposal fee, 4" thick	427	Mo	\$0.00	\$0.00		\$0.00		\$900.00				
Conchibox, 7200 lbs, 6'x 20' Inch Plates allowance  GENERAL REQUIREMENTS Total  CONSTRUCTION  Description  erground marking tape derground tape, detectable aluminum, 2"  demolition  e dml, no hauling, pavement removal, bit, 4" to 6" thick chalt disposal - hauling and disposal fee, 4" thick	427	Mo	\$0.00	\$0.00		\$0.00		\$900.00				
GENERAL REQUIREMENTS Total  CONSTRUCTION  erground marking tape derground tape, detectable aluminum, 2"  demolition a dml, no hauling, pavement removal, bit, 4" to 6" thick chalt disposal - hauling and disposal fee, 4" thick	427	Mo	\$0.00	\$0.00		\$0.00		\$900.00				
CENERAL REQUIREMENTS Total CONSTRUCTION  erground marking tape derground tape, detectable aluminum, 2"  demolition e dml, no hauling, pavement removal, bit, 4" to 6" thick shalt disposal - hauling and disposal fee, 4" thick	427				\$0.00		\$900.00		\$900 / Mo	\$0.00	\$0.00	\$900.00
erground marking tape derground tape, detectable aluminum, 2"  demolition e dml, no hauling, pavement removal, bit, 4" to 6" thick ohalt disposal - hauling and disposal fee, 4" thick	427	Clf	¢2 24	\$0.00		\$0.00			I			
erground marking tape derground tape, detectable aluminum, 2"  demolition e dml, no hauling, pavement removal, bit, 4" to 6" thick ohalt disposal - hauling and disposal fee, 4" thick	427	Clf	¢2.24	ψ0.00		Ψ0.00		\$1,749.60		\$0.00	\$0.00	\$1,749.60
derground marking tape derground tape, detectable aluminum, 2"  demolition e dml, no hauling, pavement removal, bit, 4" to 6" thick ohalt disposal - hauling and disposal fee, 4" thick	427	Clf	¢2 24					ψ1,743.00		Ψ0.00	Ψ0.00	ψ1,743.00
deground tape, detectable aluminum, 2"  demolition e dml, no hauling, pavement removal, bit, 4" to 6" thick obalt disposal - hauling and disposal fee, 4" thick	427	Clf	\$2.24									
deground tape, detectable aluminum, 2"  demolition e dml, no hauling, pavement removal, bit, 4" to 6" thick obalt disposal - hauling and disposal fee, 4" thick	427	Clf	¢2 24									
demolition e dml, no hauling, pavement removal, bit, 4" to 6" thick ohalt disposal - hauling and disposal fee, 4" thick	427	CII		\$12.87	\$3.06	\$16.83	\$0.00	\$0.00	\$5.4 / Clf	\$0.00	\$0.00	\$29.70
e dml, no hauling, pavement removal, bit, 4" to 6" thick chalt disposal - hauling and disposal fee, 4" thick cutting			<b>Ф</b> 2.34	\$12.87	\$3.06	\$10.03	\$0.00	\$0.00	\$5.4 / CII	\$0.00	\$0.00	\$29.70
chalt disposal - hauling and disposal fee, 4" thick												
cutting	427	Sqyd	\$5.29	\$2,258.83	\$0.00	\$0.00	\$3.49	\$1,490.23	\$8.78 / Sqyd			\$3,749.06
		Sqyd	\$1.00	\$427.00	\$4.70	\$2,006.90	\$1.32	\$563.64	\$7.02 / Sqyd	\$0.00	\$0.00	\$2,997.54
	1112	Lnft	\$0.48	\$533.76	\$0.07	\$77.84	\$0.26	\$289.12	\$0.81 / Lnft	\$0.00	\$0.00	\$900.72
w cutting, asphalt, after 3" deep; each addl inch of depth	1112	Lnft	\$0.82	\$911.84	\$0.30	\$333.60	\$0.44	\$489.28	\$1.56 / Lnft			\$1,734.72
grade	407	Canad	<b></b>	¢444.00	<b>CO 00</b>	<b>\$0.00</b>	<b>CO 24</b>	£00.67	\$0.47 / Cm /d	£0.00	\$0.00	#200 cc
e grade under asphalt	427	Sqyd	\$0.26	\$111.02	\$0.00	\$0.00	\$0.21	\$89.67	\$0.47 / Sqyd	\$0.00	\$0.00	\$200.69
kfill												
ckfill, dozer backfilling, trench, no compaction	853	Cuyd	\$0.80	\$682.40	\$0.00	\$0.00	\$1.28	\$1,091.84	\$2.08 / Cuyd	\$0.00	\$0.00	\$1,774.24
										ļ		
ding	1/12	Cuvd	¢ο 17	¢1 211 21	¢32.03	\$4.580.20	¢1 90	\$270.27	\$42.30 / Cund	00.02	00.02	\$6,061.77
duling, crushed stone 3/4 to 1/2	143	Cuyu	ψ0.47	Ψ1,211.21	φ32.03	ψ4,360.29	ψ1.09	φ210.21	ψ42.39 / Cuyu	φ0.00	\$0.00	φ0,001.77
paction												
ckfill Compaction, walk behind, vibrating roller 24" W, 6" lifts, 2	853	Cuyd		\$1,467.16	\$0.00	\$0.00	\$0.41	\$349.73	\$2.13 / Cuyd			\$1,816.89
												\$226.68
doing Compaction, rammer tamper, 6" to 11", 4" lifts, 2 passes	853	Cuya	\$2.93	\$2,499.29	\$0.00	\$0.00	\$0.78	\$665.34	\$3.71 / Cuya	\$0.00	\$0.00	\$3,164.63
avating, trench												
cavate trench, cont ftg, no sht or dewtrg, 4'-6' D, 1-1/2 CY hyd bac	1140	Cuyd	\$1.95	\$2,223.00	\$0.00	\$0.00	\$1.42	\$1,618.80	\$3.37 / Cuyd	\$0.00	\$0.00	\$3,841.80
<u> </u>	276	Cund	¢7 10	¢2 704 42	\$2.00	¢1 129 60	¢1E 1E	¢E 910 90	¢ae ea / Cund	00.00	00.00	\$9,640.61
		,						. ,				\$744.88
posal fee			\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$105 / Trk	\$0.00		\$1,975.05
		Lauma	<b>#0.00</b>	<b>\$0.00</b>	<b>CO 00</b>	<b>\$0.00</b>	<b>¢</b> 0.00	<b>\$0.00</b>	¢4526 / Laura	£0.00	£4 F2C 00	\$1,536.00
sion control allowance: small site: slit tence, blo bags, no special	ı	LSum	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$1536 / LSum	\$0.00	\$1,536.00	\$1,536.00
ch basins or manholes												
anout	1	Each	\$1,019.00	\$1,019.00	\$1,560.00	\$1,560.00	\$249.00	\$249.00	\$2828 / Each		*	\$2,828.00
tch bsns or manholes, curb inlet FR, grate, large 24"x36" heavy	4	Each	\$602.88	\$2,411.52	\$472.04	\$1,888.16	\$0.00	\$0.00	\$1074.92 / Each	\$0.00	\$0.00	\$4,299.68
											+	
e contree		Sqyd	\$0.80	\$341.60	\$8.06	4					1	
e course se course, large areas, crushed 3/4" stone, compacted to 9" deep	427	- 17 -			\$6.06	\$3,441.62	\$1.02	\$435.54	\$9.88 / Sqyd	\$0.00	\$0.00	\$4,218.76
	exhill Compaction, walk behind, vibrating roller 24" W, 6" lifts, 2 ograde Compaction, rammer tamper, 6" to 11", 4" lifts, 2 passes idding Compaction, rammer tamper, 6" to 11", 4" lifts, 2 passes idding Compaction, rammer tamper, 6" to 11", 4" lifts, 2 passes idding Compaction, rammer tamper, 6" to 11", 4" lifts, 2 passes idding Compaction, rammer tamper, 6" to 11", 4" lifts, 2 passes idding Compaction, rammer tamper, 6" to 11", 4" lifts, 2 passes idding Compaction, rammer tamper, 6" to 11", 4" lifts, 2 passes idding Compaction, rammer tamper, 6" to 11", 4" lifts, 2 passes idding Compaction, rammer tamper, 6" to 11", 4" lifts, 2 passes idding Compaction, rammer tamper, 6" to 11", 4" lifts, 2 passes idding Compaction, rammer tamper, 6" to 11", 4" lifts, 2 passes idding Compaction, rammer tamper, 6" to 11", 4" lifts, 2 passes idding Compaction, rammer tamper, 6" to 11", 4" lifts, 2 passes idding Compaction, rammer tamper, 6" to 11", 4" lifts, 2 passes idding Compaction, entity, 4" lifts, 2 passes idding Compaction, entit	paction  Skfill Compaction, walk behind, vibrating roller 24" W, 6" lifts, 2  grade Compaction, rammer tamper, 6" to 11", 4" lifts, 2 passes  61  61  61  61  61  61  61  61  61  6	paction ckfill Compaction, walk behind, vibrating roller 24" W, 6" lifts, 2 assas ckfill Compaction, rammer tamper, 6" to 11", 4" lifts, 2 passes 61 Cuyd ding Compaction, rammer tamper, 6" to 11", 4" lifts, 2 passes 853 Cuyd ding Compaction, rammer tamper, 6" to 11", 4" lifts, 2 passes 853 Cuyd ding Compaction, rammer tamper, 6" to 11", 4" lifts, 2 passes 853 Cuyd ding Compaction, rammer tamper, 6" to 11", 4" lifts, 2 passes 853 Cuyd ding Compaction, rammer tamper, 6" to 11", 4" lifts, 2 passes 853 Cuyd ding Compaction, rammer tamper, 6" to 11", 4" lifts, 2 passes 853 Cuyd ding Compaction, rammer tamper, 6" to 11", 4" lifts, 2 passes 853 Cuyd ding Compaction, rammer tamper, 6" to 11", 4" lifts, 2 passes 853 Cuyd ding Compaction, rammer tamper, 6" to 11", 4" lifts, 2 passes 853 Cuyd ding Compaction, rammer tamper, 6" to 11", 4" lifts, 2 passes 853 Cuyd ding Compaction, rammer tamper, 6" to 11", 4" lifts, 2 passes 853 Cuyd ding Compaction, rammer tamper, 6" to 11", 4" lifts, 2 passes 853 Cuyd ding Compaction, rammer tamper, 6" to 11", 4" lifts, 2 passes 853 Cuyd ding Compaction, rammer tamper, 6" to 11", 4" lifts, 2 passes 853 Cuyd ding Cuyd Lifts, 2 passes 853 Cuyd Lif	paction ckfill Compaction, walk behind, vibrating roller 24" W, 6" lifts, 2 passes 61 Cuyd \$2.93 dig Compaction, rammer tamper, 6" to 11", 4" lifts, 2 passes 61 Cuyd \$2.93 dig Compaction, rammer tamper, 6" to 11", 4" lifts, 2 passes 853 Cuyd \$2.93 avating, trench cavate trench, cont ftg, no sht or dewtrg, 4'-6' D, 1-1/2 CY hyd bac 1140 Cuyd \$1.95 ling ling, LCY, no loading, 12 c.y. dump truck, 20 MI RT, 0.4 lds/hr 376 Cuyd \$7.18 digng Trucks, F.E. Loader, 3 C.Y 376 Cuyd \$0.74 posal fee 19 Trk \$0.00 lion control sision control allowance: small site: silt fence, bio bags, no special 1 Lsum \$0.00 ch basins or manholes anout 1 Each \$1,019.00 ch bsns or manholes, curb inlet FR, grate, large 24"x36" heavy 4 Each \$602.88 leg course	paction ckfill Compaction, walk behind, vibrating roller 24" W, 6" lifts, 2	paction ckfill Compaction, walk behind, vibrating roller 24" W, 6" lifts, 2	paction ckfill Compaction, walk behind, vibrating roller 24" W, 6" lifts, 2	paction ckfill Compaction, walk behind, vibrating roller 24" W, 6" lifts, 2 passes 61 Cuyd \$2.93 \$1.72 \$0.00 \$0.00 \$0.00 \$0.78 digrade Compaction, rammer tamper, 6" to 11", 4" lifts, 2 passes 61 Cuyd \$2.93 \$179.02 \$0.00 \$0.00 \$0.78 digrade Compaction, rammer tamper, 6" to 11", 4" lifts, 2 passes 853 Cuyd \$2.93 \$2.499.29 \$0.00 \$0.00 \$0.78  avating, trench cavate trench, cont ftg, no sht or dewtrg, 4'-6' D, 1-1/2 CY hyd bac 1140 Cuyd \$1.95 \$2,223.00 \$0.00 \$0.00 \$1.42  ling ling, LCY, no loading, 12 c.y. dump truck, 20 MI RT, 0.4 lds/hr 376 Cuyd \$7.18 \$2,701.12 \$3.00 \$1,128.60 \$15.45  adding Trucks, F.E. Loader, 3 C.Y 376 Cuyd \$0.74 \$278.39 \$0.00 \$0.00 \$0.00  \$0.00 \$0.00 \$0.00  \$0.00 \$0.00 \$0.00  \$0.00 \$0.00 \$0.	Strill Compaction, walk behind, vibrating roller 24" W, 6" lifts, 2   853   Cuyd   \$1.72   \$1,467.16   \$0.00   \$0.00   \$0.41   \$349.73	paction    Still Compaction, walk behind, vibrating roller 24" W, 6" lifts, 2   853   Cuyd   \$1.72   \$1,467.16   \$0.00   \$0.00   \$0.00   \$0.41   \$349.73   \$2.13 / Cuyd	paction paction walk behind, vibrating roller 24" W, 6" lifts, 2	psaction  psaction psaction  psaction  psaction psaction  psaction  psaction  psaction  psaction  psaction

Item	Item Description	Quantity	Unit	Labor \$/Unit	Labor Amount	Materials \$/Unit	Materials Amount	Equip \$/Unit	Equip Amount	Total \$/Unit	Subs Amount	Other Amount	Grand Total
02610 -	Asphalt concrete pavement												
	Asphaltic conc pavement, pavement replacement over trench, 4" thick	427	Sqyd	\$35.00	\$14,945.00	\$18.00	\$7,686.00	\$2.98	\$1,272.46	\$55.98 / Sqyd	\$0.00	\$0.00	\$23,903.46
02640 -	Lines on pav't												
	Lines on pvmt, acrylic waterborne, white or yellow, 4" wide	550	Lnft	\$0.12	\$66.00	\$0.17	\$93.50	\$0.08	\$44.00	\$0.37 / Lnft	\$0.00	\$0.00	\$203.50
02840 -	Landscaping												
	Traffic Control Allowance: 2 flaggers, 15' pipe/hr	1	Lsum	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$4878 / Lsum	\$0.00	\$4,878.00	\$4,878.00
02900 -	Pot Holing												
	Pot Holing - pipe lines: 2 per 100'	11	Each	\$250.00	\$2,750.00	\$0.00	\$0.00	\$35.00	\$385.00	\$285 / Each	\$0.00	\$0.00	\$3,135.00
	SITE CONSTRUCTION Total				\$37,030.03		\$22,813.34		\$15,628.96		\$0.00	\$8,389.05	\$83,861.38
15 - ME	CHANICAL												
15090 -	 Pipe,drng&sewage,concret												
	Piping, drainage & sewage, RCP, class 3, no gaskets, 36" dia	550	Lnft	\$39.70	\$21,835.00	\$73.00	\$40,150.00	\$3.94	\$2,167.00	\$116.64 / Lnft	\$0.00	\$0.00	\$64,152.00
	Piping, water dist, conc pipe, gasket, 36" dia	55	Each	\$3.14	\$172.70	\$6.50	\$357.50	\$0.00	\$0.00	\$9.64 / Each	\$0.00	\$0.00	\$530.20
	MECHANICAL Total				\$22,007.70		\$40,507.50		\$2,167.00		\$0.00	\$0.00	\$64,682.20
	Project AAA Total	550	LF		\$59,037.73		\$63,320.84		\$19,545.56		\$0.00	\$8,389.05	\$150,293.18
	Grand Total				\$59,037.73		\$63,320.84		\$19,545.56		\$0.00	\$8,389.05	\$150,293.18

Category	Percent	Amount
Labor	39.28%	\$59,038
Material	42.13%	\$63,321
Equipment	13.00%	\$19,546
Subcontractor	0.00%	\$0
Other	5.58%	\$8,389
Net Costs		\$150,293
Labor Mark-up	18.00%	\$10,627
Material Mark-up	15.00%	\$9,498
Subcontractor Mark-up	5.00%	\$0
Equipment Mark-up	15.00%	\$2,932
Sales tax (material)	7.75%	\$4,907
Sales tax (equipment)	7.75%	\$1,515
Material Shipping & Handling	2.50%	\$1,583
Worker's Travel/Subsistence	0.10%	\$59
Subtotal		\$181,414
Contractor General Conditions	12.00%	\$21,770
Subtotal		\$203,184
Earthquake Insurance	0.10%	\$203
Subtotal		\$203,387
Construction Contingency	25.00%	\$50,847
Subtotal		\$254,234
Bldg Risk, Liability Auto Ins.	2.00%	\$5,085
Subtotal		\$259,318
Performance Bond	1.00%	\$2,593
Payment Bond	1.00%	\$2,593
Subtotal		\$264,505
Engineering Fee	10.00%	\$15,029
Environmental Permitting (Lump Sum)	-	\$10,000
Total Estimate		\$289,534



Project Number:: 128290

Client:: City of Carlsbad

Estimator(s):: JW / DG

Estimating Office:: Walnut Creek

Estimate Issue Number:: 01

Estimate Original Issue Date:: 3/14/2006

Estimate Revision Number:: 04

Estimate Revision Date:: 6/27/2008

BC Project Manager:: Chris Herencia
Estimate QA/QC Reviewer:: Butch Matthews

Estimate QA/QC Date:: 6/27/2008

PROJECT LOCATION / PROCESS AREA

Project AAAA - Located in Basin A

Item	Item Description	Quantity	Unit	Labor \$/Unit	Labor Amount	Materials \$/Unit	Materials Amount	Equip \$/Unit	Equip Amount	Total \$/Unit	Subs Amount	Other Amount	Grand Total
Project .	AAAA												
01 - GF	NERAL REQUIREMENTS												
0. 02	Trench box, 7200 lbs, 6'x 20'	12	Day	\$0.00	\$0.00	\$0.00	\$0.00	\$141.60	\$1,699.20	\$141.6 / Day	\$0.00	\$0.00	\$1,699.20
	Trench Plates allowance	1	Mo	\$0.00	\$0.00	\$0.00	\$0.00	\$900.00	\$900.00	\$900 / Mo		\$0.00	\$900.00
	GENERAL REQUIREMENTS Total			ψ0.00	\$0.00	ψ0.00	\$0.00	Ψ000.00	\$2,599.20	φοσογ ιπο	\$0.00	\$0.00	\$2,599.20
02 - SH	E CONSTRUCTION												
02020 -	Underground marking tape												
	Underground tape, detectable aluminum, 2"	9	Clf	\$2.34	\$21.06	\$3.06	\$27.54	\$0.00	\$0.00	\$5.4 / Clf	\$0.00	\$0.00	\$48.60
02060	Site demolition												
02000 -	Site demonstration Site dml, no hauling, pavement removal, bit, 4" to 6" thick	600	Sqyd	\$5.29	\$3,174.00	\$0.00	\$0.00	\$3.49	\$2,094.00	\$8.78 / Sqyd	\$0.00	\$0.00	\$5,268.00
	Asphalt disposal - hauling and disposal fee, 4" thick	600	Sqyd	\$1.00	\$600.00	\$4.70	\$2,820.00	\$1.32	+ 1	\$7.02 / Sqyd		*	\$4,212.00
	Aspiralit disposal - flauling and disposal fee, 4 trick	600	Sqyu	\$1.00	\$600.00	<b>\$4.7</b> О	\$2,820.00	\$1.32	\$792.00	\$7.02 / Sqyu	\$0.00	\$0.00	<b>Φ4,212.00</b>
02170 -	Saw cutting												
	Saw cutting, asphalt, up to 3" deep	1812	Lnft	\$0.48		\$0.07	\$126.84	\$0.26		\$0.81 / Lnft			\$1,467.72
	Saw cutting, asphalt, after 3" deep; each addl inch of depth	1812	Lnft	\$0.82	\$1,485.84	\$0.30	\$543.60	\$0.44	\$797.28	\$1.56 / Lnft	\$0.00	\$0.00	\$2,826.72
02310 -	L Fine grade												
	Fine grade under asphalt	600	Sqyd	\$0.26	\$156.00	\$0.00	\$0.00	\$0.21	\$126.00	\$0.47 / Sqyd	\$0.00	\$0.00	\$282.00
02340 -	Bedding Bedding, crushed stone 3/4" to 1/2"	421	Cuyd	\$8.47	\$3,565.02	\$32.03	\$13,481.43	\$1.89	\$795.50	\$42.39 / Cuyd	\$0.00	\$0.00	\$17,841.95
	Import backfill, crushed stone 3/4" to 1/2"	444	Cuyd	\$8.47	\$3,764.07	\$32.03	\$13,461.43	\$1.89		\$42.39 / Cuyd		*	\$17,841.95
	import backini, crusheu stone 3/4 to 1/2	444	Cuyu	φο.47	\$3,764.07	φ32.U3	φ14,234.13	φ1.09	\$639.92	\$42.39 / Cuyu	\$0.00	\$0.00	φ10,030.12
02360 -	Compaction												
	Subgrade Compaction, rammer tamper, 6" to 11", 4" lifts, 2 passes	67		\$2.93		\$0.00	\$0.00	\$0.78		\$3.71 / Cuyd			\$247.46
	Bedding Compaction, rammer tamper, 6" to 11", 4" lifts, 2 passes	362	Cuyd	\$2.93	\$1,060.66	\$0.00	\$0.00	\$0.78	\$282.36	\$3.71 / Cuyd	\$0.00	\$0.00	\$1,343.02
02450 -	Excavating, trench												
02 100	Excavate trench, cont ftg, no sht or dewtrg, 4'-6' D, 1-1/2 CY hyd bac	867	Cuyd	\$1.95	\$1,690.65	\$0.00	\$0.00	\$1.42	\$1,231.14	\$3.37 / Cuyd	\$0.00	\$0.00	\$2,921.79
02460 -	Hauling	0.07	0 1	<b>A7.10</b>	00.005.00	40.00	<b>#0.004.00</b>	045.45	<b>#</b> 40.000.00	<b>****</b>	<b>*</b> ***********************************	<b>A</b> 0.00	<b>****</b>
	Hauling, LCY, no loading, 12 c.y. dump truck, 20 MI	867	Cuyd	\$7.18	\$6,225.06	\$3.00	\$2,601.00	\$15.45	4 - 1	\$25.63 / Cuyd		\$0.00	\$22,218.06
	Loading Trucks, F.E. Loader, 3 C.Y  Disposal fee	867 43	Cuyd Trk	\$0.74 \$0.00	\$641.58 \$0.00	\$0.00 \$0.00	\$0.00 \$0.00	\$1.24 \$0.00	+ 1	\$1.98 / Cuyd \$105 / Trk			\$1,716.66 \$4,551.75
	Disposarree	73	IIK	ψ0.00	ψ0.00	ψ0.00	ψ0.00	ψ0.00	Ψ0.00	ψ1057 TIK	ψ0.00	ψ4,001.70	ψ+,001.70
02490 -	Erosion control												
	Erosion control allowance: small site: silt fence, bio bags, no special	1	Lsum	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$1536 / Lsum	\$0.00	\$1,536.00	\$1,536.00
02570 -	Catch basins or manholes												
	CB or manholes, conc, precast, 4' ID, 6' deep	3	Each	\$549.75	\$1.649.25	\$1,050,00	\$3,150,00	\$148.32	\$444.96	\$1748.07 / Each	\$0.00	\$0.00	\$5,244,21
	Junction structure manholes, concrete, precast, 8' I.D., 8' deep,	1	Each	\$1,587.50	\$1,587.50	\$3,133.31	\$3,133.31	\$354.40	\$354.40	\$5075.21 / Each	\$0.00	\$0.00	\$5,075.21
	CB or manholes, conc, slab tops, precast, 8" thick, 4' dia	3	Each	\$158.75		\$201.00	\$603.00	\$35.44	\$106.32		\$0.00	\$0.00	\$1,185.57
	Cleanout	2	Each	\$1,019.00	\$2,038.00	\$1,560.00	\$3,120.00	\$249.00	\$498.00	\$2828 / Each	\$0.00	\$0.00	\$5,656.00
	CB or manholes, conc, slab tops, precast, 8" thick, 8' dia	1	Each	\$181.43		\$575.00	\$575.00	\$40.50	\$40.50		\$0.00	\$0.00	\$796.93
	Catch bsns or manholes, frs and covs, hvy traffic, 24" diam, 400 lb.	3	Each	\$162.82		\$260.00	\$780.00	\$36.35			\$0.00		\$1,377.51
	Catch bsns or manholes, frs and covs, hvy traffic, 36" diam, 1150 lb.	1	Each	\$423.33		\$860.00	\$860.00	\$94.51		\$1377.84 / Each		\$0.00	\$1,377.84
	CB or manholes, inverts, single channel brick, concrete	3	Each	\$144.00	\$432.00	\$100.00	\$300.00	\$0.00	\$0.00	\$244 / Each	\$0.00		\$732.00
	CB or manholes, inverts, triple channel, conc	1	Each	\$240.32	\$240.32	\$134.00	\$134.00	\$0.00	\$0.00	\$374.32 / Each	\$0.00	\$0.00	\$374.32
	CB/manholes, steps, heavyweight cast iron, 12" x 10-1/2", for all con	6	Each	\$9.66	\$57.96	\$23.00	\$138.00	\$0.00	\$0.00	\$32.66 / Each	\$0.00	\$0.00	\$195.96

Item	Item Description	Quantity	Unit	Labor \$/Unit	Labor Amount	Materials \$/Unit	Materials Amount	Equip \$/Unit	Equip Amount	Total \$/Unit	Subs Amount	Other Amount	Grand Total
02600 -	Base course												
	Base course, large areas, crushed 3/4" stone, compacted to 9" deep	600	Sqyd	\$0.80	\$480.00	\$8.06	\$4,836.00	\$1.02	\$612.00	\$9.88 / Sqyd	\$0.00	\$0.00	\$5,928.00
02610 -	Asphalt concrete pavement												
	Asphaltic conc pavement, pavement replacement over trench, 4" thick	600	Sqyd	\$35.00	\$21,000.00	\$18.00	\$10,800.00	\$2.98	\$1,788.00	\$55.98 / Sqyd	\$0.00	\$0.00	\$33,588.00
02640 -	Lines on pav't												
02010	Lines on pvmt, acrylic waterborne, white or yellow, 4" wide	900	Lnft	\$0.12	\$108.00	\$0.17	\$153.00	\$0.08	\$72.00	\$0.37 / Lnft	\$0.00	\$0.00	\$333.00
02840 -	Landscaping												
	Traffic Control Allowance: 2 flaggers, 15' pipe/hr	1	Lsum	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$4878 / Lsum	\$0.00	\$4,878.00	\$4,878.00
02900 -	Pot Holing												
02000	Pot Holing - pipe lines: 2 per 100'	18	Each	\$250.00	\$4,500.00	\$0.00	\$0.00	\$35.00	\$630.00	\$285 / Each	\$0.00	\$0.00	\$5,130.00
	SITE CONSTRUCTION Total				\$57,111.63		\$62,416.85		\$26,698.16		\$0.00	\$10,965.75	\$157,192.39
03 - CO	NCRETE												
03330 -	Patching concrete												
	Pre-cast concrete wall penetration, non-shrink grout, 24" hole	8	Each	\$75.00	\$600.00	\$108.00	\$864.00	\$0.00	\$0.00	\$183 / Each	\$0.00	\$0.00	\$1,464.00
	CONCRETE Total				\$600.00		\$864.00		\$0.00		\$0.00	\$0.00	\$1,464.00
15 - ME	CHANICAL CHANICAL												
15090 -	Pipe,drng&sewage,concret			004.50	000.050.00	<b>*</b> 05.00	004 500 00	00.04	40.550.00	000.04/1.6	<b>*</b> 0.00	00.00	<b>A</b> 50.400.00
	Piping, drainage & sewage, RCP, class 3, no gaskets, 24" dia Piping, water dist, conc pipe, gasket, 24" dia	900	Lnft Each	\$24.50 \$3.14	+ /	\$35.00 \$4.75	\$31,500.00 \$427.50	\$2.84 \$0.00	+ 1	\$62.34 / Lnft \$7.89 / Each	\$0.00 \$0.00		\$56,106.00 \$710.10
	Piping, water dist, conc pipe, gasket, 24 dia	90	Eacii	φ3.14	\$202.00	\$4.75	\$427.50	\$0.00	\$0.00	\$7.09 / ⊑acii	\$0.00	\$0.00	\$710.10
	MECHANICAL Total				\$22,332.60		\$31,927.50		\$2,556.00		\$0.00	\$0.00	\$56,816.10
	Project AAAA Total				\$80,044.23		\$95,208.35		\$31,853.36		\$0.00	\$10,965.75	\$218,071.69
	Grand Total				\$80.044.23		\$95,208,35		\$31.853.36		\$0.00	\$10.965.75	\$218.071.69

Category	Percent	Amount
Labor	36.71%	\$80,044
Material	43.66%	\$95,208
Equipment	14.61%	\$31,853
Subcontractor	0.00%	\$0
Other	5.03%	\$10,966
Net Costs		\$218,072
Labor Mark-up	18.00%	\$14,408
Material Mark-up	15.00%	\$14,281
Subcontractor Mark-up	5.00%	\$0
Equipment Mark-up	15.00%	\$4,778
Sales tax (material)	7.75%	\$7,379
Sales tax (equipment)	7.75%	\$2,469
Material Shipping & Handling	2.50%	\$2,380
Worker's Travel/Subsistence	0.10%	\$80
Subtotal		\$263,846
Contractor General Conditions	12.00%	\$31,662
Subtotal		\$295,508
Earthquake Insurance	0.10%	\$296
Subtotal		\$295,804
Construction Contingency	25.00%	\$73,951
Subtotal		\$369,754
Bldg Risk, Liability Auto Ins.	2.00%	\$7,395
Subtotal		\$377,150
Performance Bond	1.00%	\$3,771
Payment Bond	1.00%	\$3,771
Subtotal		\$384,692
Engineering Fee	10.00%	\$21,807
Environmental Permitting (Lump Sum)	-	\$10,000
Total Estimate		\$416,500



Project Number:: 128290

Client:: City of Carlsbad

Estimator(s):: JW / DG

Estimating Office:: Walnut Creek

Estimate Issue Number:: 01

Estimate Original Issue Date:: 3/14/2006

Estimate Revision Number:: 04

Estimate Revision Date:: 6/27/2008

BC Project Manager:: Chris Herencia
Estimate QA/QC Reviewer:: Butch Matthews

Estimate QA/QC Date:: 6/27/2008

PROJECT LOCATION / PROCESS AREA

Project AC - Located in Basin A

Item	Item Description	Quantity	Unit	Labor \$/Unit	Labor Amount	Materials \$/Unit	Materials Amount	Equip \$/Unit	Equip Amount	Total \$/Unit	Subs Amount	Other Amount	Grand Total
Project A	AC												
01 - GEI	 NERAL REQUIREMENTS												
OT - OLI	VEI VAE NE GOINEIVIO												
01200 -	General equipment rental												
	Trench box, 9500 lbs, 8'x 20'	20	Day	\$0.00	\$0.00	\$0.00	\$0.00	\$240.00	\$4,800.00	\$240 / Day	\$0.00	\$0.00	\$4,800.00
	GENERAL REQUIREMENTS Total				\$0.00		\$0.00		\$4,800.00		\$0.00	\$0.00	\$4,800.00
00 0/7	5 CONSTRUCTION												
02 - 511	E CONSTRUCTION												
02020 -	l Underground marking tape												
02020	Underground tape, detectable aluminum, 2"	13	Clf	\$2.34	\$29.84	\$3.06	\$39.02	\$0.00	\$0.00	\$5.4 / Clf	\$0.00	\$0.00	\$68.85
	ornarigioana tapo, actoriazio diaminani, 2		0	Ψ2.0.	Ψ20.0.	ψο.σσ	\$00.02	Ψ0.00	φσ.σσ	ψο. τ γ σ	\$0.00	ψ0.00	φοσισο
02060 -	Site demolition												
	Site dml, no hauling, pavement removal, bit, 4" to 6" thick	436	Sqyd	\$5.29	\$2,305.54	\$0.00	\$0.00	\$3.49		\$8.78 / Sqyd		\$0.00	\$3,826.59
	Asphalt disposal - hauling and disposal fee, 4" thick	436	Sqyd	\$1.00	\$435.83	\$4.70	\$2,048.40	\$1.32	\$575.30	\$7.02 / Sqyd	\$0.00	\$0.00	\$3,059.53
02170 -	Saw cutting	2000		<b>A</b> 0.40	<b>0.1.00.1.10</b>	<b>A</b> 0.07	0.450.00	40.00	<b>A</b> 500.00	00.04 /1. //	00.00	00.00	04.040.00
	Saw cutting, asphalt, up to 3" deep Saw cutting, asphalt, after 3" deep; each addl inch of depth	2280 2280	Lnft Lnft	\$0.48 \$0.82	\$1,094.40 \$1,869.60	\$0.07 \$0.30	\$159.60 \$684.00	\$0.26 \$0.44		\$0.81 / Lnft \$1.56 / Lnft		\$0.00 \$0.00	\$1,846.80 \$3,556.80
	Saw cutting, asphalt, after 3 deep, each addition of depth	2280	Lnit	\$0.82	\$1,009.00	\$0.30	\$084.00	\$0.44	\$1,003.20	\$1.56 / LIII	\$0.00	\$0.00	\$3,556.60
02320 -	l Backfill												
02020	Backfill, dozer backfilling, trench, up to 300' haul, no compaction	1568	Cuyd	\$0.80	\$1,254.32	\$0.00	\$0.00	\$1.28	\$2,006.91	\$2.08 / Cuyd	\$0.00	\$0.00	\$3,261.23
	Backfill, dozer backfilling, trench, up to 300' haul, no compaction,	391	Cuyd	\$0.80	\$312.80	\$0.00	\$0.00	\$1.28		\$2.08 / Cuyd		\$0.00	\$813.28
										•			
02340 -	Bedding												
	Bedding, crushed stone 3/4" to 1/2"	962	Cuyd	\$8.47	\$8,146.45	\$32.03	\$30,806.45	\$1.89	\$1,817.80	\$42.39 / Cuyd	\$0.00	\$0.00	\$40,770.70
02260	Compaction												
02300 -	Compaction, trench, walk behind, vib. plate, bedding	827	Cuyd	\$1.90	\$1.571.49	\$0.00	\$0.00	\$0.51	\$421.82	\$2.41 / Cuvd	\$0.00	\$0.00	\$1,993.31
	Compaction, trench, walk behind, vib. plate, sedding	129	Cuyd	\$1.90		\$0.00	\$0.00	\$0.51		\$2.41 / Cuyd			\$310.65
	Compaction, trench, walk behind, vib. plate, backfill	1411	Cuyd	\$1.90		\$0.00	\$0.00	\$0.51	\$719.66	\$2.41 / Cuyd		\$0.00	\$3,400,75
	Compaction, struct. or trench, walk behind, vib. plate subgrade	111	Cuyd	\$1.90		\$0.00	\$0.00	\$0.51	\$56.61	\$2.41 / Cuyd		\$0.00	\$267.51
	Compaction, struct. or trench, walk behind, vib. plate bedding	167	Cuyd	\$1.90	\$317.30	\$0.00	\$0.00	\$0.51	\$85.17	\$2.41 / Cuyd		\$0.00	\$402.47
	Compaction, struct. or trench, walk behind, vib. plate backfill channel	391	Cuyd	\$1.90	\$742.90	\$0.00	\$0.00	\$0.51	\$199.41	\$2.41 / Cuyd	\$0.00	\$0.00	\$942.31
02420 -	Excavating, structural												
	Excavating, structural, mach excav, com earth, hyd backhoe, 2 CY	890	Cuyd	\$5.28	\$4,699.20	\$0.00	\$0.00	\$6.70	\$5,963.00	\$11.98 / Cuyd	\$0.00	\$0.00	\$10,662.20
02.450	Excavating, trench												
02430 -	Excavating, trench  Excavate trench, no sht or dewtrg, 4'-6' D, 1-1/2 CY hyd bac	2518	Cuyd	\$1.95	\$4.910.30	\$0.00	\$0.00	\$1.42	\$3.575.70	\$3.37 / Cuyd	\$0.00	\$0.00	\$8.486.00
	Exceptate trotton, no six of dewarg, 4 o B, 1 1/2 o 1 tilya bac	2010	Ouyu	Ψ1.00	ψ4,010.00	ψ0.00	ψ0.00	Ψ1.72	ψο,οτο.το	ψο.στ τ Odyd	ψ0.00	ψ0.00	ψο, του.ου
02460 -	Hauling												
	Hauling, LCY, no loading, 20 c.y. dump truck, 30 MI RT, 0.33 lds/hr	1580	Cuyd	\$5.95	\$9,398.62	\$0.00	\$0.00	\$10.40	\$16,427.84	\$16.35 / Cuyd	\$0.00	\$0.00	\$25,826.46
	Hauling, LCY, no loading, 20 c.y. dump truck, 20 MI RT, 0.4 lds/hr,	499	Cuyd	\$5.95		\$0.00	\$0.00	\$10.40	\$5,189.60	\$16.35 / Cuyd			\$8,158.65
	Loading Trucks, F.E. Loader, 3 C.Y	1580	Cuyd	\$0.74		\$0.00	\$0.00	\$1.24	\$1,958.70	\$1.98 / Cuyd		\$0.00	\$3,127.61
	Loading Trucks, F.E. Loader, 3 C.Y, channel	499	Cuyd	\$0.74	\$369.26	\$0.00	\$0.00	\$1.24	\$618.76	\$1.98 / Cuyd	\$0.00	\$0.00	\$988.02
00570	Cotob hasing as manhalas												
02570 -	Catch basins or manholes												
	Catch basins or manholes, concrete, precast, 6' I.D., 6' deep	6	Each	\$846.67	\$5,080.02	\$1,850.00	\$11,100.00	\$189.01	\$1 134 06	\$2885.68 / Each	\$0.00	\$0.00	\$17,314.08
	Catal Sasilio S. Harmono, controlo, product, o 1.5., o deep	Ü	Lucii	ψ0-10.07	ψ0,000.02	ψ1,000.00	ψ11,100.00	ψ100.01	ψ1,134.00	\$2500.00 / Edon	ψ0.00	\$3.00	ψ17,514.00
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Item	Item Description	Quantity	Unit	Labor \$/Unit	Labor Amount	Materials \$/Unit	Materials Amount	Equip \$/Unit	Equip Amount	Total \$/Unit	Subs Amount	Other Amount	Grand Total
02610 -	Asphalt concrete pavement												
	Asphaltic conc pavement, pavement replacement over trench, 4"	436	Sqyd	\$35.00	\$15,254.05	\$18.00	\$7,844.94	\$2.98	\$1,298.77	\$55.98 / Sqyd	\$0.00	\$0.00	\$24,397.76
	SITE CONSTRUCTION Total				\$65,066.76		\$52,682.41		\$45,732.39		\$0.00	\$0.00	\$163,481.56
02 00	NCRETE												
03 - 001	VORETE												
03090 -	Forms place, slab grade												
	Forms in place, SOG, edge forms, 7" to 12" high, wood, channel	1216	Sfca	\$3.99	\$4,851.84	\$0.80	\$972.80	\$0.00	\$0.00	\$4.79 / Sfca	\$0.00	\$0.00	\$5,824.64
03110 -	Forms in place, walls												
	Forms in place, walls, job built plyform, to 8' high, channel	2400	Sfca	\$7.35	\$17,640.00	\$2.59	\$6,216.00	\$0.00	\$0.00	\$9.94 / Sfca	\$0.00	\$0.00	\$23,856.00
03140 -	Welded wire fabric Welded wire fabric, sheets, 4 x 4 - W4 x W4 (4 x 4), 85 lb/CSF,	F.4	Csf	<b>©20.04</b>	\$1,976.94	\$29.41	\$1,588.14	\$0.00	\$0.00	\$66.02 / Csf	\$0.00	<b>\$0.00</b>	\$3,565.08
	Welded wire fabric, sheets, 4 x 4 - W4 x W4 (4 x 4), 85 lb/CSF,	54 12	Csf	\$36.61 \$36.61	\$1,976.94	\$29.41	\$1,588.14	\$0.00	\$0.00	\$66.02 / Csf			\$3,565.08 \$792.24
	Weided wire labric, streets, 4 x 4 - W4 x W4 (4 x 4), 65 lb/C51 ;	12	CSI	φ30.01	φ439.32	Ψ29.41	φ332.92	φυ.υυ	φ0.00	\$00.02 / CSI	\$0.00	φ0.00	Ψ1 92.24
03150 -	Concrete, ready mix												
	Headwall	195	Cuyd	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$1000 / Cuyd	\$0.00	\$195,000.00	\$195,000.00
	Concrete, ready mix, regular weight, 4000 psi	104	Cuyd	\$0.00	\$0.00	\$120.00	\$12,480.00	\$0.00	\$0.00	\$120 / Cuyd	\$0.00	\$0.00	\$12,480.00
03170 -	Placing concrete												
	Placing conc, incl vib, slab on grade, pumped, channel	59	Cuyd	\$17.45	\$1,029.55	\$0.00	\$0.00	\$5.56		\$23.01 / Cuyd		\$0.00	\$1,357.59
	Placing conc, incl vib, walls, pumped, channel	45	Cuyd	\$32.28	\$1,452.60	\$0.00	\$0.00	\$10.28	\$462.60	\$42.56 / Cuyd	\$0.00	\$0.00	\$1,915.20
02180 -	 Finishing floors												
03100 -	Finishing slabs, break ties, forms & patch voids	1216	Sqft	\$1.17	\$1,422.72	\$0.03	\$36.48	\$0.00	\$0.00	\$1.2 / Sqft	\$0.00	\$0.00	\$1,459.20
	Finishing floors, monolithic, screed, float, & hand trowel, channel	4800	Saft	\$0.62	\$2.976.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.62 / Sqft		\$0.00	\$2,976.00
	i miching mode, monomine, coroca, moai, a mana nonei, oname	.000	Oqii	Ψ0.02	ψ2,010.00	ψ0.00	φυ.σσ	ψ0.00	φσ.σσ	ψ0.02 / <b>C</b> q.ι	ψ0.00	ψ0.00	ψ2,010.00
03190 -	Finishing walls												
	Finishing slabs, break ties, forms & patch voids	2400	Sqft	\$1.17	\$2,808.00	\$0.03	\$72.00	\$0.00		\$1.2 / Sqft		\$0.00	\$2,880.00
	Finishing walls, carborundum rub, wet rub	1200	Sqft	\$2.13	\$2,556.00	\$0.03	\$36.00	\$0.00	\$0.00	\$2.16 / Sqft	\$0.00	\$0.00	\$2,592.00
	CONCRETE Total				\$37,152.97		\$21,754.34		\$790.64		\$0.00	\$195,000.00	\$254,697.95
15 - ME	L CHANICAL												
13 - IVIL	INICAL												
15090 -	Pipe,drng&sewage,concret												
	Piping, drainage & sewage, RCP, class 3, no gaskets, 18" dia	275	Lnft	\$18.85	\$5,183.75	\$32.00	\$8,800.00	\$2.18	\$599.50	\$53.03 / Lnft	\$0.00	\$0.00	\$14,583.25
													<u> </u>
	Piping, drainage & sewage, RCP, class 3, no gaskets, 36" dia	1000	Lnft	\$39.70	\$39,700.00	\$73.00	\$73,000.00	\$3.94	\$3,940.00	\$116.64 / Lnft	\$0.00	\$0.00	\$116,640.00
15395 -	Cleanouts												
	Cleanouts, flr type, rnd top, xtra hvy dty, 36" pipe size	3	Each	\$791.91	\$2,375.73	\$1,500.00	\$4,500.00	\$0.00	\$0.00	\$2291.91 / Each	\$0.00	\$0.00	\$6,875.73
1	MECHANICAL Total				\$47,259.48		\$86,300.00		\$4,539.50		\$0.00	\$0.00	\$138,098.98
	WECHANICAL TOTAL				φ41,209.48		φου,300.00		φ4,539.50		φ0.00	φ0.00	φ130,098.98
1	Project AC Total				\$149,479.21		\$160,736.75		\$55,862.53		\$0.00	\$195,000.00	\$561,078.49
	. 15,501710 10101				ŢS, II S.Z.I		Ţ:25,1 CC.10		\$30,002.00		\$5.00	\$123,000.00	\$23,,0,0,40
	Grand Total				\$149,479.21		\$160,736.75		\$55,862.53		\$0.00	\$195,000.00	\$561,078.49

Category	Percent	Amount
Labor	26.64%	\$149,479
Material	28.65%	\$160,737
Equipment	9.96%	\$55,863
Subcontractor	0.00%	\$0
Other	34.75%	\$195,000
Net Costs		\$561,078
Labor Mark-up	18.00%	\$26,906
Material Mark-up	15.00%	\$24,111
Subcontractor Mark-up	5.00%	\$0
Equipment Mark-up	15.00%	\$8,379
Sales tax (material)	7.75%	\$12,457
Sales tax (equipment)	7.75%	\$4,329
Material Shipping & Handling	2.50%	\$4,018
Worker's Travel/Subsistence	0.10%	\$149
Subtotal		\$641,429
Contractor General Conditions	12.00%	\$76,971
Subtotal		\$718,400
Earthquake Insurance	0.10%	\$718
Subtotal		\$719,119
Construction Contingency	20.00%	\$143,824
Subtotal		\$862,943
Bldg Risk, Liability Auto Ins.	2.00%	\$17,259
Subtotal		\$880,201
Performance Bond	1.00%	\$8,802
Payment Bond	1.00%	\$8,802
Subtotal		\$897,806
Engineering Fee	10.00%	\$56,108
Environmental Permitting (Lump Sum)	-	\$39,000
Total Estimate		\$992,913



Project Number:: 128290

Client:: City of Carlsbad

Estimator(s):: SB / DG

Estimating Office:: Walnut Creek

Estimate Issue Number:: 01

Estimate Original Issue Date:: 11/14/1005

Estimate Revision Number:: 04

Estimate Revision Date:: 6/27/2008

BC Project Manager:: Chris Herencia
Estimate QA/QC Reviewer:: Butch Matthews

Estimate QA/QC Date:: 6/27/2008

PROJECT LOCATION / PROCESS AREA

Project AFA - Located in Basin A

Item	Item Description	Quantity	Unit	Labor \$/Unit	Labor Amount	Materials \$/Unit	Materials Amount	Equip \$/Unit	Equip Amount	Total \$/Unit	Subs Amount	Other Amount	Grand Total
Project A	FA												
02 - SITE	CONSTRUCTION												
02210 - 0	L Clear and grub												
022.70	Clear & grub, brush, including stumps	0	Acre	\$1,759.00	\$703.60	\$0.00	\$0.00	\$3,686.00	\$1,474.40	\$5445 / Acre	\$0.00	\$0.00	\$2,178.00
02420 - 1	Excavating												
	Excavation, self prop scraper, 14 CY 1/4 push dozer	500	Cuyd	\$1.29	\$645.00	\$0.00	\$0.00	\$5.19	\$2,595.00	\$6.48 / Cuyd	\$0.00	\$0.00	\$3,240.00
02360 - (	 Compaction												
	Compaction, walk behind, vibrating pl 18" w, 12" lifts, 4 passes,	593	Cuyd	\$1.90	\$1,126.70	\$0.00	\$0.00	\$0.51	\$302.43	\$2.41 / Cuyd	\$0.00	\$0.00	\$1,429.13
02460 - 1	l Hauling												
	Fill, spread dumped material, by dozer, no compaction	593	Cuyd	\$0.72	\$426.96	\$0.00	\$0.00	\$1.15	\$681.95	\$1.87 / Cuyd	\$0.00	\$0.00	\$1,108.91
02470 - 3	Soil stabilization												
	Soil stabilization, geotextile fabric, woven, H.D., 600 lb. tensile st	1646	Sqyd	\$0.32	\$526.72	\$1.85	\$3,045.10	\$0.00	\$0.00	\$2.17 / Sqyd	\$0.00	\$0.00	\$3,571.82
02480 - 1	1 1												
	Rip-rap, gabions, galv steel mesh boxes, stone filled, 36" deep	100	Cuyd	\$49.95	\$4,995.00	\$60.56	\$6,056.00	\$16.44	\$1,644.00	\$126.95 / Cuyd	\$0.00	\$0.00	\$12,695.00
02490 - 1	Erosion control												
	Erosion control allowance:	1	Lsum	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$2614 / Lsum	\$0.00	\$2,614.00	\$2,614.00
	SITE CONSTRUCTION Total				\$8,423.98		\$9,101.10		\$6,697.78		\$0.00	\$2,614.00	\$26,836.86
	Project AFA Total				\$8,423.98		\$9,101.10		\$6,697.78		\$0.00	\$2,614.00	\$26,836.86
	Grand Total				\$8,423.98		\$9,101.10		\$6,697.78		\$0.00	\$2,614.00	\$26,836.86

Category	Percent	Amount
Labor	31.39%	\$8,424
Material	33.91%	\$9,101
Equipment	24.96%	\$6,698
Subcontractor	0.00%	\$0
Other	9.74%	\$2,614
Net Costs		\$26,837
Labor Mark-up	18.00%	\$1,516
Material Mark-up	15.00%	\$1,365
Subcontractor Mark-up	5.00%	\$0
Equipment Mark-up	15.00%	\$1,005
Sales tax (material)	7.75%	\$705
Sales tax (equipment)	7.75%	\$519
Material Shipping & Handling	2.50%	\$228
Worker's Travel/Subsistence	0.10%	\$8
Subtotal		\$32,183
Contractor General Conditions	12.00%	\$3,862
Subtotal		\$36,045
Earthquake Insurance	0.10%	\$36
Subtotal		\$36,081
Construction Contingency	25.00%	\$9,020
Subtotal		\$45,102
Bldg Risk, Liability Auto Ins.	2.00%	\$902
Subtotal		\$46,004
Performance Bond	1.00%	\$460
Payment Bond	1.00%	\$460
Subtotal		\$46,924
Engineering Fee	10.00%	\$2,684
Environmental Permitting (Lump Sum)	-	\$42,000
Total Estimate		\$91,608



Project Number:: 128290

Client:: City of Carlsbad

Estimator(s):: SB / DG

Estimating Office:: Walnut Creek

Estimate Issue Number:: 01

Estimate Original Issue Date:: 11/14/2005

Estimate Revision Number:: 04

Estimate Revision Date:: 6/27/2008

BC Project Manager:: Chris Herencia
Estimate QA/QC Reviewer:: Butch Matthews

Estimate QA/QC Date:: 6/27/2008

PROJECT LOCATION / PROCESS AREA

Project AFB - Located in Basin A

Item	Item Description	Quantity	Unit	Labor \$/Unit	Labor Amount	Materials \$/Unit	Materials Amount	Equip \$/Unit	Equip Amount	Total \$/Unit	Subs Amount	Other Amount	Grand Total
Project A	AFB												
02 - SIT	E CONSTRUCTION												
02210 -	Clear and grub												
02270	Clear & grub, brush, including stumps	1	Acre	\$1,759.00	\$1,055.40	\$0.00	\$0.00	\$3,686.00	\$2,211.60	\$5445 / Acre	\$0.00	\$0.00	\$3,267.00
02420 -	Excavating												
	Excavation, self prop scraper, 14 CY 1/4 push dozer	1500	Cuyd	\$1.29	\$1,935.00	\$0.00	\$0.00	\$5.19	\$7,785.00	\$6.48 / Cuyd	\$0.00	\$0.00	\$9,720.00
02360 -	Compaction												
	Compaction, walk behind, vibrating pl 18" w, 12" lifts, 4 passes,	1650	Cuyd	\$1.90	\$3,135.00	\$0.00	\$0.00	\$0.51	\$841.50	\$2.41 / Cuyd	\$0.00	\$0.00	\$3,976.50
02460 -	   Hauling												
	Disposal fee	53	Trk	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$105 / Trk	\$0.00	\$5,601.75	\$5,601.75
	Hauling, LCY, no loading, 12 CY dump truck, clear & grub	1067	Cuyd	\$4.66	\$4,972.22	\$0.00	\$0.00	\$9.74	\$10,392.58	\$14.4 / Cuyd	\$0.00	\$0.00	\$15,364.80
	Loading Trucks, F.E. Loader, 3 C.Y, clear & grub	1067	Cuyd	\$0.74	\$789.58	\$0.00	\$0.00	\$1.24	\$1,323.08	\$1.98 / Cuyd	\$0.00	\$0.00	\$2,112.66
	Fill, spread dumped material, by dozer, no compaction	1650	Cuyd	\$0.72	\$1,188.00	\$0.00	\$0.00	\$1.15	\$1,897.50	\$1.87 / Cuyd	\$0.00	\$0.00	\$3,085.50
02470 -	Soil stabilization												
	Soil stabilization, geotextile fabric, woven, H.D., 600 lb. tensile st	1646	Sqyd	\$0.32	\$526.72	\$1.85	\$3,045.10	\$0.00	\$0.00	\$2.17 / Sqyd	\$0.00	\$0.00	\$3,571.82
02480 -	Rip-rap												
	Rip-rap, gabions, galv steel mesh boxes, stone filled, 36" deep	132	Cuyd	\$49.95	\$6,593.40	\$60.56	\$7,993.92	\$16.44	\$2,170.08	\$126.95 / Cuyd	\$0.00	\$0.00	\$16,757.40
02490 -	Erosion control												
	Erosion control allowance:	1	Lsum	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$2614 / Lsum	\$0.00	\$2,614.00	\$2,614.00
	SITE CONSTRUCTION Total				\$20,195,32		\$11.039.02		\$26.621.34		\$0.00	\$8.215.75	\$66.071.43
	SITE CONSTRUCTION TOLL				ψ20, 193.32		ψ11,009.02		ψ20,021.0 <del>4</del>		Ψ0.00	ψ5,215.75	\$30,071.43
	Project AFB Total				\$20,195.32		\$11,039.02		\$26,621.34		\$0.00	\$8,215.75	\$66,071.43
	Grand Total				\$20,195.32		\$11,039.02		\$26,621.34		\$0.00	\$8,215.75	\$66,071.43

Category	Percent	Amount
Labor	30.57%	\$20,195
Material	16.71%	\$11,039
Equipment	40.29%	\$26,621
Subcontractor	0.00%	\$0
Other	12.43%	\$8,216
Net Costs		\$66,071
Labor Mark-up	18.00%	\$3,635
Material Mark-up	15.00%	\$1,656
Subcontractor Mark-up	5.00%	\$0
Equipment Mark-up	15.00%	\$3,993
Sales tax (material)	7.75%	\$856
Sales tax (equipment)	7.75%	\$2,063
Material Shipping & Handling	2.50%	\$276
Worker's Travel/Subsistence	0.10%	\$20
Subtotal		\$78,570
Contractor General Conditions	12.00%	\$9,428
Subtotal		\$87,999
Earthquake Insurance	0.10%	\$88
Subtotal		\$88,087
Construction Contingency	25.00%	\$22,022
Subtotal		\$110,109
Bldg Risk, Liability Auto Ins.	2.00%	\$2,202
Subtotal		\$112,311
Performance Bond	1.00%	\$1,123
Payment Bond	1.00%	\$1,123
Subtotal		\$114,557
Engineering Fee	10.00%	\$6,607
Environmental Permitting (Lump Sum)	-	\$42,000
Total Estimate		\$163,164



Project Number:: 128290

Client:: City of Carlsbad

Estimator(s):: SB / DG

Estimating Office:: Walnut Creek

Estimate Issue Number:: 01

Estimate Original Issue Date:: 5/12/2006

Estimate Revision Number:: 04

Estimate Revision Date:: 6/27/2008

BC Project Manager:: Chris Herencia Estimate QA/QC Reviewer:: Bob Ferguson

Estimate QA/QC Date:: 6/27/2008

PROJECT LOCATION / PROCESS AREA

Project B - Located in Basin B

Item	Item Description	Quantity	Unit	Labor \$/Unit	Labor Amount	Materials \$/Unit	Materials Amount	Equip \$/Unit	Equip Amount	Total \$/Unit	Subs Amount	Other Amount	Grand Total
Project E													
02 - SIT	E CONSTRUCTION												
02060 -	Site demolition			***	*****					*****			
	Site dml, conc7" to 24" thick, rod reinforced	25	Cuyd	\$92.56	\$2,314.00	\$0.00	\$0.00	\$61.09	\$1,527.25	\$153.65 / Cuyd	\$0.00	\$0.00	\$3,841.25
02210 -	Clear and grub												
02210 -	Clear & grub, brush, including stumps	2	Acre	\$1,759.00	\$3,518.00	\$0.00	\$0.00	\$3,686.00	\$7,372.00	\$5445 / Acre	\$0.00	\$0.00	\$10,890.00
	Clear & grub, brush, including stumps		Acre	\$1,735.00	\$3,310.00	φ0.00	\$0.00	φ3,000.00	\$1,312.00	ф3443 / Acie	\$0.00	\$0.00	\$10,090.00
02420 -	Excavating, structural												
	Excavating, structural, mach excav, com earth, hyd backhoe, 3 CY	36000	Cuyd	\$5.28	\$190,080.00	\$0.00	\$0.00	\$6.70	\$241,200.00	\$11.98 / Cuyd	\$0.00	\$0.00	\$431,280.00
	Excavating, structural, mach excav, com earth, hyd backhoe, 3 CY	1000	Cuyd	\$5.28	\$5,280.00	\$0.00	\$0.00	\$6.70		\$11.98 / Cuyd		\$0.00	\$11,980.00
			Í			Ì							
02430 -	Fill												
	Fill, spread dumped material, by dozer, no compaction	1400	Cuyd	\$0.72	\$1,008.00	\$0.00	\$0.00	\$1.15	\$1,610.00	\$1.87 / Cuyd	\$0.00	\$0.00	\$2,618.00
02460 -	Hauling												
	Disposal fee	2	Trk	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$105 / Trk	*		\$210.00
	Hauling, LCY, no loading, 20 c.y. dump truck, 30 MI RT, 0.33 lds/hr,	25		\$5.95		\$0.00	\$0.00	\$10.40	\$260.00	\$16.35 / Cuyd			\$408.75
	Hauling, LCY, no loading, 20 c.y. dump truck, 30 MI RT, 0.33 lds/hr	30000	Cuyd	\$5.95	\$178,500.00	\$0.00	\$0.00	\$10.40	\$312,000.00	\$16.35 / Cuyd		* * * * * * * * * * * * * * * * * * * *	\$490,500.00
	Hauling, LCY, no loading, 20 c.y. dump truck, 30 MI RT, 0.33 lds/hr	2456	Cuyd	\$5.95	\$14,613.20	\$0.00	\$0.00	\$10.40	\$25,542.40	\$16.35 / Cuyd			\$40,155.60
	Hauling, LCY, no loading, 20 c.y. dump truck, 30 MI RT, 0.33 lds/hr	1400	Cuyd	\$5.95	\$8,330.00	\$0.00	\$0.00	\$10.40	\$14,560.00	\$16.35 / Cuyd			\$22,890.00
	Loading Trucks, F.E. Loader, 3 C.Y	26000	Cuyd	\$0.74	\$19,240.00	\$0.00	\$0.00	\$1.24	\$32,240.00	\$1.98 / Cuyd	*	*	\$51,480.00
	Loading Trucks, F.E. Loader, 3 C.Y, concrete Loading Trucks, F.E. Loader, 3 C.Y	23 1400	Cuyd	\$0.74 \$0.74	\$17.02 \$1,036.00	\$0.00 \$0.00	\$0.00 \$0.00	\$1.24 \$1.24	\$28.52	\$1.98 / Cuyd			\$45.54 \$2.772.00
	Loading Trucks, F.E. Loader, 3 C.Y  Loading Trucks, F.E. Loader, 3 C.Y	2456	Cuyd Cuyd	\$0.74	\$1,036.00	\$0.00	\$0.00	\$1.24	\$1,736.00 \$3,045.44	\$1.98 / Cuyd \$1.98 / Cuyd		*	\$4,862.88
	Loading Trucks, F.E. Loader, 3 C.T	2430	Cuyu	<b>Ф</b> 0.74	\$1,017.44	\$0.00	\$0.00	Φ1.24	\$3,043.44	\$1.96 / Cuyu	\$0.00	\$0.00	Φ4,00∠.00
02470 -	Soil stabilization												
02-17-0	Soil stabilization, geotextile fabric, woven, H.D., 600 lb. tensile st	507	Sqyd	\$0.32	\$162.24	\$1.85	\$937.95	\$0.00	\$0.00	\$2.17 / Sqyd	\$0.00	\$0.00	\$1,100.19
	on clasmication, good-kine lastic, mover, i iis i, coo is: torione of	001	Oqya	Ψ0.02	Ų.02.2.	ψ1.00	ψουου	ψ0.00	ψ0.00	ψ <u>ε</u> , σq, α	ψ0.00	ψ0.00	ψ.,.σσσ
02480 -	Rip-rap												
	Rip-rap, gabions, galv steel mesh boxes, stone filled, 36" deep	618	Cuyd	\$49.95	\$30,869.10	\$60.56	\$37,426.08	\$16.44	\$10,159.92	\$126.95 / Cuyd	\$0.00	\$0.00	\$78,455.10
										-			
	SITE CONSTRUCTION Total				\$456,933.75		\$38,364.03		\$657,981.53		\$0.00	\$210.00	\$1,153,489.31
03 - CO	NCRETE												
03150 -	Concrete, ready mix			00	<b>A</b>	00	<b>A</b> =	<b>A</b> 0	00.55	04000 / 6	0	005.005.55	A05.05
	Retaining wall	25	Cuyd	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$1000 / Cuyd	\$0.00	\$25,000.00	\$25,000.00
	COMODETE Tara				<b>f</b> c 00		<b>#0.00</b>		<b>#</b> 0.00		<b>#</b> 0.00	\$25,000,00	<b>#</b> 0E 000 00
	CONCRETE Total				\$0.00		\$0.00		\$0.00		\$0.00	\$25,000.00	\$25,000.00
	Project B Total				\$456.933.75		\$38.364.03		\$657,981.53		\$0.00	\$25,210.00	\$1,178,489.31
	Froject B Total				ψτου, σοσ. το		φου,ου4.0ο		ψυστ,συτ.υσ		Ψ0.00	φευ,ε τυ.υυ	ψ1,110,409.31
	Grand Total				\$456,933.75		\$38,364.03		\$657,981.53		\$0.00	\$25,210.00	\$1,178,489.31

Category	Percent	Amount
Labor	38.77%	\$456,934
Material	3.26%	\$38,364
Equipment	55.83%	\$657,982
Subcontractor	0.00%	\$0
Other	2.14%	\$25,210
Net Costs		\$1,178,489
Labor Mark-up	18.00%	\$82,248
Material Mark-up	15.00%	\$5,755
Subcontractor Mark-up	5.00%	\$0
Equipment Mark-up	15.00%	\$98,697
Sales tax (material)	7.75%	\$2,973
Sales tax (equipment)	7.75%	\$50,994
Material Shipping & Handling	2.50%	\$959
Worker's Travel/Subsistence	0.10%	\$457
Subtotal		\$1,420,572
Contractor General Conditions	12.00%	\$170,469
Subtotal		\$1,591,041
Earthquake Insurance	0.10%	\$1,591
Subtotal		\$1,592,632
Construction Contingency	20.00%	\$318,526
Subtotal		\$1,911,158
Bldg Risk, Liability Auto Ins.	2.00%	\$38,223
Subtotal		\$1,949,381
Performance Bond	1.00%	\$19,494
Payment Bond	1.00%	\$19,494
Subtotal		\$1,988,369
Engineering Fee	10.00%	\$117,849
Environmental Permitting (Lump Sum)	-	\$25,000
Total Estimate		\$2,131,218



Project Number:: 128290

Client:: City of Carlsbad

Estimator(s):: JW / DG

Estimating Office:: Walnut Creek

Estimate Issue Number:: 01

Estimate Original Issue Date:: 3/14/2006

Estimate Revision Number:: 04

Estimate Revision Date:: 6/27/2008

BC Project Manager:: Chris Herencia Estimate QA/QC Reviewer:: Bob Ferguson

Estimate QA/QC Date:: 6/27/2008

PROJECT LOCATION / PROCESS AREA

Project BB-1

Item	Item Description	Quantity	Unit	Labor \$/Unit	Labor Amount	Materials \$/Unit	Materials Amount	Equip \$/Unit	Equip Amount	Total \$/Unit	Subs Amount	Other Amount	Grand Total
Project E	3B-1												
01 CEI	NERAL REQUIREMENTS												
UI - GEI	VERAL REQUIREMENTS												
01200 -	General equipment rental												
	Trench box, 7200 lbs, 6'x 20'	25	Day	\$0.00	\$0.00	\$0.00	\$0.00	\$141.60	\$3,540.00	\$141.6 / Day	\$0.00	\$0.00	\$3,540.00
	Trench Plates allowance	1	Мо	\$0.00	\$0.00	\$0.00	\$0.00	\$900.00	\$900.00	\$900 / Mo	\$0.00	\$0.00	\$900.00
	GENERAL REQUIREMENTS Total				\$0.00		\$0.00		\$4,440.00		\$0.00	\$0.00	\$4,440.00
00 0/T	E CONICTRIJOTION												
	E CONSTRUCTION Underground marking tape												
02020 -	Underground tape, detectable aluminum, 2"	11	Clf	\$2.34	\$25.74	\$3.06	\$33.66	\$0.00	\$0.00	\$5.4 / Clf	\$0.00	\$0.00	\$59.40
	Onderground tape, detectable autilitum, 2	- ''	Oii	Ψ2.54	Ψ23.7 τ	ψ3.00	ψ55.00	ψ0.00	ψ0.00	ψ3.47 ΟΠ	ψ0.00	ψ0.00	ψ55.40
02060 -	Site demolition												
	Site dml, no hauling, pavement removal, bit, 4" to 6" thick	672	Sqyd	\$5.29	\$3,554.88	\$0.00	\$0.00	\$3.49	\$2,345.28	\$8.78 / Sqyd	\$0.00	\$0.00	\$5,900.16
	Asphalt disposal - hauling and disposal fee, 4" thick	672	Sqyd	\$1.00	\$672.00	\$4.70	\$3,158.40	\$1.32	\$887.04	\$7.02 / Sqyd	\$0.00	\$0.00	\$4,717.44
02170 -	Saw cutting												
	Saw cutting, asphalt, up to 3" deep	2211	Lnft	\$0.48	\$1,061.28	\$0.07	\$154.77	\$0.26	\$574.86	\$0.81 / Lnft			\$1,790.91
	Saw cutting, asphalt, after 3" deep; each addl inch of depth	2211	Lnft	\$0.82	\$1,813.02	\$0.30	\$663.30	\$0.44	\$972.84	\$1.56 / Lnft	\$0.00	\$0.00	\$3,449.16
02210	Fine grade												
02310-	Fine grade, fine grade granular base for sidewalks and bikeways	100	Sqyd	\$1.06	\$106.00	\$0.00	\$0.00	\$0.15	\$15.00	\$1.21 / Sqyd	\$0.00	\$0.00	\$121.00
	The grade, the grade grandal base for sidewards and bineways	100	Oqyu	Ψ1.00	ψ100.00	Ψ0.00	ψ0.00	ψ0.10	ψ10.00	ψ1.217 Oqyu	ψ0.00	ψ0.00	Ψ121.00
02320 -	Backfill												
	Backfill, dozer backfilling, trench, no compaction	1160	Cuyd	\$0.80	\$928.00	\$0.00	\$0.00	\$1.28	\$1,484.80	\$2.08 / Cuyd	\$0.00	\$0.00	\$2,412.80
02340 -	Bedding												
	Bedding, crushed stone 3/4" to 1/2"	224	Cuyd	\$8.47	\$1,897.28	\$32.03	\$7,174.72	\$1.89	\$423.36	\$42.39 / Cuyd	\$0.00	\$0.00	\$9,495.36
00000	O-maratian												
02360 -	Compaction	1160	Cund	\$1.90	\$2,204.00	\$0.00	\$0.00	\$0.51	\$591.60	\$2.41 / Cund	\$0.00	\$0.00	\$2,795.60
	Compaction, walk behind, vibrating roller 24" W, 6" lifts, 2 passes  Compaction, rammer tamper, 6" to 11", 4" lifts, 2 passes	1160 1160	Cuyd Cuyd	\$1.90	\$2,204.00	\$0.00	\$0.00	\$0.51		\$2.41 / Cuyd \$3.71 / Cuyd			\$4,303.60
	Compaction, rammer tamper, o to 11, 4 lins, 2 passes	1100	Cuyu	φ2.93	ψ5,590.00	φ0.00	φυ.υυ	φυ.70	ψ <del>3</del> 04.00	\$3.717 Cuyu	\$0.00	φ0.00	ψ4,303.00
02450 -	Excavating, trench												
	Excavate trench, cont ftg, no sht or dewtrg, 4'-6' D, 1-1/2 CY hyd bac	1456	Cuyd	\$1.95	\$2,839.20	\$0.00	\$0.00	\$1.42	\$2,067.52	\$3.37 / Cuyd	\$0.00	\$0.00	\$4,906.72
	, <u>g</u> , <u>g</u> , <u>, , , , , , , , , , , , , , , , , , </u>		Í			·		•					
02460 -	Hauling												
	Hauling, LCY, no loading, 20 c.y. dump truck, 30 MI RT, 0.33 lds/hr	296	Cuyd	\$5.95	\$1,761.20	\$0.00	\$0.00	\$10.40	\$3,078.40	\$16.35 / Cuyd	\$0.00	\$0.00	\$4,839.60
	Loading Trucks, F.E. Loader, 3 C.Y	296	Cuyd	\$0.74	\$219.04	\$0.00	\$0.00	\$1.24	\$367.04	\$1.98 / Cuyd			\$586.08
	Disposal fee	15	Trk	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$105 / Trk	\$0.00	\$1,575.00	\$1,575.00
00.400	Foreign control												
02490 -	Erosion control	1	Loum	<b>ድ</b> ስ ስስ	00.00	00.00	\$0.00	<u></u> የሰ ሰሰ	\$0.00	\$2614 / Lsum	\$0.00	\$2,614.00	\$2,614.00
	Erosion control allowance:	- 1	Lsum	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$2014 / LSum	\$0.00	\$2,014.00	\$2,614.00
02570 -	Catch basins or manholes												
	Cleanout	2	Each	\$1,019.00	\$2,038.00	\$1,560.00	\$3,120.00	\$249.00	\$498.00	\$2828 / Each	\$0.00	\$0.00	\$5,656.00
	Catch bsns or manholes, curb inlet FR, grate, large 24"x36" heavy	2	Each	\$602.88	\$1,205.76	\$472.04	\$944.08	\$0.00	\$0.00	\$1074.92 / Each	\$0.00		\$2,149.84
	Junction Structure	1	Each	\$680.00	\$680.00	\$6,000.00	\$6,000.00	\$0.00	\$0.00	\$6680 / Each			\$6,680.00
02610 -	Asphalt concrete pavement				-		-			<del></del>			<del></del>
	Asphaltic conc pavement, pavement replacement over trench, 4"	672	Sqyd	\$35.00	\$23,520.00	\$18.00	\$12,096.00	\$2.98	\$2,002.56	\$55.98 / Sqyd	\$0.00	\$0.00	\$37,618.56
02640 -	Lines on pav't			00.1-	<b>*</b> 400	<b>**</b> 4=	A107.55	<b>^</b>	000.55	<b>#0.57</b> / 1	***	00.55	A 10=
	Lines on pvmt, acrylic waterborne, white or yellow, 4" wide	1100	Lnft	\$0.12	\$132.00	\$0.17	\$187.00	\$0.08	\$88.00	\$0.37 / Lnft	\$0.00	\$0.00	\$407.00

Item	Item Description	Quantity	Unit	Labor \$/Unit	Labor Amount	Materials \$/Unit	Materials Amount	Equip \$/Unit	Equip Amount	Total \$/Unit	Subs Amount	Other Amount	Grand Total
02840 -	Landscaping												
	Traffic Control Allowance: 2 flaggers, 15' pipe/hr	1	Lsum	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$4878 / Lsum	\$0.00	\$4,878.00	\$4,878.00
02900 -	Pot Holing												
	Pot Holing - pipe lines	22	Each	\$250.00	\$5,500.00	\$0.00	\$0.00	\$35.00	\$770.00	\$285 / Each	\$0.00	\$0.00	\$6,270.00
	SITE CONSTRUCTION Total				\$53,556.20		\$33,531.93		\$17,071.10		\$0.00	\$9,067.00	\$113,226.23
15 - ME	CCHANICAL												
15090 -	Pipe,drng&sewage,concret												
	Piping, drainage & sewage, RCP, class 3, no gaskets, 18" dia	1100	Lnft	\$18.85	\$20,735.00	\$32.00	\$35,200.00	\$2.18	\$2,398.00	\$53.03 / Lnft	\$0.00	\$0.00	\$58,333.00
	Piping, water dist, conc pipe, gasket, 18" dia	110	Each	\$3.14	\$345.40	\$4.50	\$495.00	\$0.00	\$0.00	\$7.64 / Each	\$0.00	\$0.00	\$840.40
	MECHANICAL Total				\$21,080.40		\$35,695.00		\$2,398.00		\$0.00	\$0.00	\$59,173.40
	Project BB-1 Total				\$74,636.60		\$69,226.93		\$23,909.10		\$0.00	\$9,067.00	\$176,839.63
	Grand Total				\$74,636.60		\$69,226.93		\$23,909.10		\$0.00	\$9,067.00	\$176,839.63

Category	Percent	Amount
Labor	42.21%	\$74,637
Material	39.15%	\$69,227
Equipment	13.52%	\$23,909
Subcontractor	0.00%	\$0
Other	5.13%	\$9,067
Net Costs		\$176,840
Labor Mark-up	18.00%	\$13,435
Material Mark-up	15.00%	\$10,384
Subcontractor Mark-up	5.00%	\$0
Equipment Mark-up	15.00%	\$3,586
Sales tax (material)	7.75%	\$5,365
Sales tax (equipment)	7.75%	\$1,853
Material Shipping & Handling	2.50%	\$1,731
Worker's Travel/Subsistence	0.10%	\$75
Subtotal		\$213,268
Contractor General Conditions	12.00%	\$25,592
Subtotal		\$238,860
Earthquake Insurance	0.10%	\$239
Subtotal		\$239,099
Construction Contingency	25.00%	\$59,775
Subtotal		\$298,874
Bldg Risk, Liability Auto Ins.	2.00%	\$5,977
Subtotal		\$304,851
Performance Bond	1.00%	\$3,049
Payment Bond	1.00%	\$3,049
Subtotal		\$310,948
Engineering Fee	10.00%	\$17,684
Environmental Permitting (Lump Sum)	-	\$7,000
Total Estimate		\$335,632



Project Number:: 128290

Client:: City of Carlsbad

Estimator(s):: JW / DG

Estimating Office:: Walnut Creek

Estimate Issue Number:: 01

Estimate Original Issue Date:: 3/14/2006

Estimate Revision Number:: 04

Estimate Revision Date:: 6/27/2008

BC Project Manager:: Chris Herencia Estimate QA/QC Reviewer:: Bob Ferguson

Estimate QA/QC Date:: 6/27/2008

PROJECT LOCATION / PROCESS AREA

Project BB-2

Item	Item Description	Quantity	Unit	Labor \$/Unit	Labor Amount	Materials \$/Unit	Materials Amount	Equip \$/Unit	Equip Amount	Total \$/Unit	Subs Amount	Other Amount	Grand Total
Project E	BB-2												
01 CE	NERAL REQUIREMENTS												
UI - GEI	NERAL REQUIREMENTS												
01200 -	General equipment rental												
	Trench box, 7200 lbs, 6'x 20'	23	Day	\$0.00	\$0.00	\$0.00	\$0.00	\$141.60	\$3,256.80	\$141.6 / Day	\$0.00	\$0.00	\$3,256.80
	Trench Plates allowance	1	Мо	\$0.00	\$0.00	\$0.00	\$0.00	\$900.00	\$900.00	\$900 / Mo	\$0.00	\$0.00	\$900.00
	GENERAL REQUIREMENTS Total				\$0.00		\$0.00		\$4,156.80		\$0.00	\$0.00	\$4,156.80
02 SIT	E CONSTRUCTION												
	Underground marking tape												
02020 -	Underground tape, detectable aluminum, 2"	17	Clf	\$2.34	\$39.78	\$3.06	\$52.02	\$0.00	\$0.00	\$5.4 / Clf	\$0.00	\$0.00	\$91.80
	ondorground tape, detectable didininality 2	.,	Oil	Ψ2.01	φουο	ψο.σσ	ψ02.02	ψ0.00	ψ0.00	ψο. 47 ΟΠ	φ0.00	ψ0.00	ψ01.00
02060 -	Site demolition												
	Site dml, no hauling, pavement removal, bit, 4" to 6" thick	1322	Sqyd	\$5.29	\$6,993.38	\$0.00	\$0.00	\$3.49	\$4,613.78	\$8.78 / Sqyd	\$0.00	\$0.00	\$11,607.16
	Asphalt disposal - hauling and disposal fee, 4" thick	1322	Sqyd	\$1.00	\$1,322.00	\$4.70	\$6,213.40	\$1.32	\$1,745.04	\$7.02 / Sqyd	\$0.00	\$0.00	\$9,280.44
02170 -	Saw cutting								****				
	Saw cutting, asphalt, up to 3" deep	3414	Lnft	\$0.48	\$1,638.72	\$0.07	\$238.98	\$0.26	\$887.64	\$0.81 / Lnft		\$0.00	\$2,765.34
	Saw cutting, asphalt, after 3" deep; each addl inch of depth	3414	Lnft	\$0.82	\$2,799.48	\$0.30	\$1,024.20	\$0.44	\$1,502.16	\$1.56 / Lnft	\$0.00	\$0.00	\$5,325.84
02310 -	Fine grade												
02010	Fine grade, fine grade granular base for sidewalks and bikeways	125	Sqyd	\$1.06	\$132.50	\$0.00	\$0.00	\$0.15	\$18.75	\$1.21 / Sqyd	\$0.00	\$0.00	\$151.25
	grand, me grand grand and the transfer and the grand and t		- 1) -	******	V.02.00	70.00	75155	7	¥.6	¥		70.00	*******
02320 -	Backfill												
	Backfill, dozer backfilling, trench, no compaction	2640	Cuyd	\$0.80	\$2,112.00	\$0.00	\$0.00	\$1.28	\$3,379.20	\$2.08 / Cuyd	\$0.00	\$0.00	\$5,491.20
02340 -	Bedding												
	Bedding, crushed stone 3/4" to 1/2"	441	Cuyd	\$8.47	\$3,735.27	\$32.03	\$14,125.23	\$1.89	\$833.49	\$42.39 / Cuyd	\$0.00	\$0.00	\$18,693.99
02260	Compaction												
02300 -	Compaction, walk behind, vibrating roller 24" W, 6" lifts, 2 passes	2640	Cuyd	\$1.90	\$5,016.00	\$0.00	\$0.00	\$0.51	\$1,346.40	\$2.41 / Cuyd	\$0.00	\$0.00	\$6,362.40
	Compaction, rammer tamper, 6" to 11", 4" lifts, 2 passes	2640	Cuyd	\$2.93	\$7,735.20	\$0.00	\$0.00	\$0.78		\$3.71 / Cuyd			\$9,794.40
	Compaction, raminor tampor, or to 11 , 1 mile, 2 pages	20.0	Cuju	<b>\$2.00</b>	ψ1,100.20	ψο.σσ	ψ0.00	ψοιιο	<b>\$2,000.20</b>	ψο τ , σαγα	ψ0.00	ψ0.00	ψο,, ο π το
02450 -	Excavating, trench												
	Excavate trench, cont ftg, no sht or dewtrg, 4'-6' D, 1-1/2 CY hyd bac	3526	Cuyd	\$1.95	\$6,875.70	\$0.00	\$0.00	\$1.42	\$5,006.92	\$3.37 / Cuyd	\$0.00	\$0.00	\$11,882.62
02460 -	Hauling					•							
	Hauling, LCY, no loading, 20 c.y. dump truck, 30 MI RT, 0.33 lds/hr	886	Cuyd	\$5.95	\$5,271.70	\$0.00	\$0.00	\$10.40	\$9,214.40	\$16.35 / Cuyd		\$0.00	\$14,486.10
	Loading Trucks, F.E. Loader, 3 C.Y	886 43	Cuyd Trk	\$0.74 \$0.00	\$655.64 \$0.00	\$0.00 \$0.00	\$0.00 \$0.00	\$1.24 \$0.00	\$1,098.64 \$0.00	\$1.98 / Cuyd \$105 / Trk			\$1,754.28
	Disposal fee	43	IIK	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$105 / 11K	\$0.00	\$4,515.00	\$4,515.00
02490 -	Erosion control												
	Erosion control allowance:	1	Lsum	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$2614 / Lsum	\$0.00	\$2,614.00	\$2,614.00
		i		Ţ	72.00	72.20	72.00	+2.30	72.00	,	\$2,00	,	,_,
02570 -	Catch basins or manholes												
	Cleanout	2	Each	\$1,019.00	\$2,038.00	\$1,560.00	\$3,120.00	\$249.00	\$498.00	\$2828 / Each	\$0.00	\$0.00	\$5,656.00
	Catch bsns or manholes, curb inlet FR, grate, large 24"x36" heavy	3	Each	\$602.88	\$1,808.64	\$472.04	\$1,416.12	\$0.00	\$0.00	\$1074.92 / Each	\$0.00		\$3,224.76
	Junction Structure	1	Each	\$680.00	\$680.00	\$6,000.00	\$6,000.00	\$0.00	\$0.00	\$6680 / Each	\$0.00	\$0.00	\$6,680.00
00040	Application and a province of the control of the co												
02010 -	Asphaltic concrete pavement	4000	C en est	<b>005.00</b>	¢46.070.00	640.00	¢22.700.00	<b>#0.00</b>	¢2.020.50	<b>¢</b> EE 00 / 0∞ :-1	<b>#0.00</b>	60.00	\$74.00E.50
	Asphaltic conc pavement, pavement replacement over trench, 4"	1322	Sqyd	\$35.00	\$46,270.00	\$18.00	\$23,796.00	\$2.98	\$3,939.56	\$55.98 / Sqyd	\$0.00	\$0.00	\$74,005.56
02640 -	Lines on pav't												
32070	Lines on pwnt, acrylic waterborne, white or yellow, 4" wide	1700	Lnft	\$0.12	\$204.00	\$0.17	\$289.00	\$0.08	\$136.00	\$0.37 / Lnft	\$0.00	\$0.00	\$629.00

Item	Item Description	Quantity	Unit	Labor \$/Unit	Labor Amount	Materials \$/Unit	Materials Amount	Equip \$/Unit	Equip Amount	Total \$/Unit	Subs Amount	Other Amount	Grand Total
02840 -	Landscaping												
	Traffic Control Allowance: 2 flaggers, 15' pipe/hr	1	Lsum	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$4878 / Lsum	\$0.00	\$4,878.00	\$4,878.00
02900 -	Pot Holing												
	Pot Holing - pipe lines	34	Each	\$250.00	\$8,500.00	\$0.00	\$0.00	\$35.00	\$1,190.00	\$285 / Each	\$0.00	\$0.00	\$9,690.00
	SITE CONSTRUCTION Total				\$103,828.01		\$56,274.95		\$37,469.18		\$0.00	\$12,007.00	\$209,579.14
15 - ME	CHANICAL												
15090 -	l Pipe,drng&sewage,concret												
	Piping, drainage & sewage, RCP, class 3, no gaskets, 36" dia	1700	Lnft	\$39.70	\$67,490.00	\$73.00	\$124,100.00	\$3.94	\$6,698.00	\$116.64 / Lnft	\$0.00	\$0.00	\$198,288.00
	Piping, water dist, conc pipe, gasket, 36" dia	170	Each	\$3.14	\$533.80	\$6.50	\$1,105.00	\$0.00	\$0.00	\$9.64 / Each	\$0.00	\$0.00	\$1,638.80
	MECHANICAL Total				\$68,023.80		\$125,205.00		\$6,698.00		\$0.00	\$0.00	\$199,926.80
	Project BB-2 Total				\$171,851.81		\$181,479.95		\$48,323.98		\$0.00	\$12,007.00	\$413,662.74
	Grand Total				\$171,851.81		\$181,479.95		\$48,323.98		\$0.00	\$12,007.00	\$413,662.74

Category	Percent	Amount
Labor	41.54%	\$171,852
Material	43.87%	\$181,480
Equipment	11.68%	\$48,324
Subcontractor	0.00%	\$0
Other	2.90%	\$12,007
Net Costs		\$413,663
Labor Mark-up	18.00%	\$30,933
Material Mark-up	15.00%	\$27,222
Subcontractor Mark-up	5.00%	\$0
Equipment Mark-up	15.00%	\$7,249
Sales tax (material)	7.75%	\$14,065
Sales tax (equipment)	7.75%	\$3,745
Material Shipping & Handling	2.50%	\$4,537
Worker's Travel/Subsistence	0.10%	\$172
Subtotal		\$501,585
Contractor General Conditions	12.00%	\$60,190
Subtotal		\$561,776
Earthquake Insurance	0.10%	\$562
Subtotal		\$562,337
Construction Contingency	20.00%	\$112,467
Subtotal		\$674,805
Bldg Risk, Liability Auto Ins.	2.00%	\$13,496
Subtotal		\$688,301
Performance Bond	1.00%	\$6,883
Payment Bond	1.00%	\$6,883
Subtotal		\$702,067
Engineering Fee	10.00%	\$41,366
Environmental Permitting (Lump Sum)	-	\$7,000
Total Estimate		\$750,433



Project Number:: 128290

Client:: City of Carlsbad

Estimator(s):: SB / DG

Estimating Office:: Walnut Creek

Estimate Issue Number:: 01

Estimate Original Issue Date:: 4/18/2006

Estimate Revision Number:: 04

Estimate Revision Date:: 6/27/2008

BC Project Manager:: Chris Herencia
Estimate QA/QC Reviewer:: Butch Matthews

Estimate QA/QC Date:: 6/27/2008

PROJECT LOCATION / PROCESS AREA

Project BCA - Located in Basin B

Item	Item Description	Quantity	Unit	Labor \$/Unit	Labor Amount	Materials \$/Unit	Materials Amount	Equip \$/Unit	Equip Amount	Total \$/Unit	Subs Amount	Other Amount	Grand Total
Project B	CA												
01 - GE	NERAL REQUIREMENTS												
0, 02	TEN OF THE GOVERNMENT OF												
	Trench box, 9500 lbs, 8'x 20'	40	Day	\$0.00	\$0.00	\$0.00	\$0.00	\$240.00		\$240 / Day	\$0.00		\$9,600.00
	Trench Plates allowance	2	Мо	\$0.00	\$0.00	\$0.00	\$0.00	\$900.00	\$1,800.00	\$900 / Mo	\$0.00	\$0.00	\$1,800.00
	GENERAL REQUIREMENTS Total				\$0.00		\$0.00		\$11,400.00		\$0.00	\$0.00	\$11,400.00
	GENERAL REQUIREMENTO TOTAL				Ψ0.00		Ψ0.00		ψ11,400.00		Ψ0.00	Ψ0.00	ψ11,400.00
02 - SITE	CONSTRUCTION												
2020													
02020 -	Underground marking tape Underground tape, detectable aluminum, 2"	29	Clf	\$2.34	\$67.86	\$3.06	\$88.74	\$0.00	\$0.00	\$5.4 / Clf	\$0.00	\$0.00	\$156.60
	Onderground tape, detectable aluminum, 2	25	Cii	Ψ2.54	φ01.00	φ3.00	φου.74	φ0.00	φυ.υυ	\$3.4 / CII	φυ.υυ	φ0.00	φ130.00
02060 -	Site demolition												
	Site dml, no hauling, pavement removal, bit, 4" to 6" thick	1806	Sqyd	\$5.29	\$9,553.74	\$0.00	\$0.00	\$3.49		\$8.78 / Sqyd	\$0.00		\$15,856.68
	Asphalt disposal - hauling and disposal fee, 4" thick	1806	Sqyd	\$1.00	\$1,806.00	\$4.70	\$8,488.20	\$1.32	\$2,383.92	\$7.02 / Sqyd	\$0.00	\$0.00	\$12,678.12
02170 -	Saw cutting												
02170-	Saw cutting, asphalt, up to 3" deep	6600	Lnft	\$0.48	\$3,168.00	\$0.07	\$462.00	\$0.26	\$1,716.00	\$0.81 / Lnft	\$0.00	\$0.00	\$5,346.00
	Saw cutting, asphalt, after 3" deep; each addl inch of depth	6600	Lnft	\$0.82	\$5,412.00	\$0.30	\$1,980.00	\$0.44	\$2,904.00	\$1.56 / Lnft	\$0.00	\$0.00	\$10,296.00
02320 -		1173	Cuyd	\$0.80	\$938.40	\$0.00	\$0.00	\$1.28	\$1,501.44	\$2.08 / Cuyd	\$0.00	\$0.00	\$2,439.84
	Backfill, dozer backfilling, trench, up to 300' haul, no compaction	11/3	Cuya	\$0.80	\$938.40	\$0.00	\$0.00	\$1.28	\$1,501.44	\$2.08 / Cuya	\$0.00	\$0.00	\$2,439.84
02340 -	Bedding												
	Bedding, crushed stone 3/4" to 1/2"	1970	Cuyd	\$8.47	\$16,685.90	\$32.03	\$63,099.10	\$1.89	\$3,723.30	\$42.39 / Cuyd	\$0.00	\$0.00	\$83,508.30
00000	O-market and the second and the seco												
02360 -	Compaction Compaction, walk behind, vibrating roller 24" W, 6" lifts, 2 passes	232	Cuyd	\$1.90	\$440.80	\$0.00	\$0.00	\$0.51	\$118.32	\$2.41 / Cuvd	\$0.00	\$0.00	\$559.12
	Compaction, rammer tamper, 6" to 11", 4" lifts, bedding	1691	Cuyd	\$2.93		\$0.00	\$0.00	\$0.78		\$3.71 / Cuyd	\$0.00		\$6,273.6
	Compaction, rammer tamper, 6" to 11", 4" lifts, backfill	1057	Cuyd	\$2.93		\$0.00	\$0.00	\$0.78	\$824.46	\$3.71 / Cuyd	\$0.00	\$0.00	\$3,921.47
02450 -	Excavating, trench	2075	Cund	£4.70	¢5 442.00	<b>*</b> 0.00	<b>\$0.00</b>	\$1.28	\$2,02C,00	f2 04 / Cd	<b>*</b> 0.00	¢0.00	<b>PO 240 0</b>
	Excavate trench, common earth curb, 6'-10' deep, 1-1/2 CY hyd	3075	Cuyd	\$1.76	\$5,412.00	\$0.00	\$0.00	\$1.28	\$3,936.00	\$3.04 / Cuyd	\$0.00	\$0.00	\$9,348.00
02460 -	Hauling												
	Hauling, LCY, no loading, 20 c.y. dump truck, 30 MI RT, 0.33 lds/hr	2670	Cuyd	\$5.95		\$0.00	\$0.00	\$10.40	\$27,768.00	\$16.35 / Cuyd	\$0.00	\$0.00	\$43,654.50
	Loading Trucks, F.E. Loader, 3 C.Y	2670	Cuyd	\$0.74		\$0.00	\$0.00	\$1.24	1-,	\$1.98 / Cuyd	\$0.00		\$5,286.60
	Disposal fee	134	Trk	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$105 / Trk	\$0.00	\$14,017.50	\$14,017.50
02490 -	Erosion control												
	Erosion control allowance:	2	Lsum	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$2614 / Lsum	\$0.00	\$5,228.00	\$5,228.00
02570 -	Catch basins or manholes												
	Cleanout  Catch bsns or manholes, curb inlet FR, grate, large 24"x36" heavy	9	Each Each	\$1,019.00 \$602.88	\$9,171.00 \$4,823.04	\$1,560.00 \$472.04	\$14,040.00 \$3,776.32	\$249.00 \$0.00	\$2,241.00 \$0.00	\$2828 / Each \$1074.92 / Each	\$0.00 \$0.00		\$25,452.00 \$8,599.36
	Junction Structure	2	Each	\$680.00	\$1,360.00	\$6,000.00	\$12,000.00	\$0.00		\$6680 / Each	\$0.00		\$13,360.00
	<del>-</del>			Ţ	Ţ.,225.00	<b>\$2,222.00</b>	Ţ: <u>_</u> ,::3:00	<b>+1.00</b>	\$3.00	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Ţ0.00	Ţ00	Ţ:2,230.00
02600 -	Base course	-					*						
	Base course, large areas, crushed 3/4" stone, compacted to 9" deep	1806	Sqyd	\$0.80	\$1,444.80	\$8.06	\$14,556.36	\$1.02	\$1,842.12	\$9.88 / Sqyd	\$0.00	\$0.00	\$17,843.28
02610 -	Asphalt concrete pavement												
02010-	Asphaltic conc pavement, pavement replacement over trench, 4"	1806	Sqyd	\$35.00	\$63,210.00	\$18.00	\$32,508.00	\$2.98	\$5,381.88	\$55.98 / Sqyd	\$0.00	\$0.00	\$101,099.88
	, , , , , , , , , , , , , , , , , , , ,		J W		,		,	<del>+</del> =.50	, , , , , ,		\$2.00	\$2.30	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,

Item	Item Description	Quantity	Unit	Labor \$/Unit	Labor Amount	Materials \$/Unit	Materials Amount	Equip \$/Unit	Equip Amount	Total \$/Unit	Subs Amount	Other Amount	Grand Total
02640	- Lines on pav't												
	Lines on pvmt, acrylic waterborne, white or yellow, 4" wide	3300	Lnft	\$0.12	\$396.00	\$0.17	\$561.00	\$0.08	\$264.00	\$0.37 / Lnft	\$0.00	\$0.00	\$1,221.00
02840	- Landscaping												
	Traffic Control Allowance: 2 flaggers, 15' pipe/hr	2	Lsum	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$4878 / Lsum	\$0.00	\$9,756.00	\$9,756.00
	SITE CONSTRUCTION Total				\$149,803.48		\$151,559.72		\$65,537.16		\$0.00	\$29,001.50	\$395,901.86
15 - ME	CHANICAL												
	Piping, drainage & sewage, RCP, class 3, no gaskets, 24" dia	2900	Lnft	\$24.50	\$71,050.00	\$35.00	\$101,500.00	\$2.84	\$8,236.00	\$62.34 / Lnft	\$0.00	\$0.00	\$180,786.00
	Piping, water dist, conc pipe, gasket, 24" dia	290	Each	\$3.14	\$910.60	\$4.75	\$1,377.50	\$0.00	\$0.00	\$7.89 / Each	\$0.00	\$0.00	\$2,288.10
	MECHANICAL Total				\$71,960.60		\$102,877.50		\$8,236.00		\$0.00	\$0.00	\$183,074.10
	Project BCA total				\$221,764.08		\$254,437.22		\$85,173.16		\$0.00	\$29,001.50	\$590,375.96
	Grand Total				\$221,764.08		\$254,437.22		\$85,173.16		\$0.00	\$29,001.50	\$590,375.96

Category	Percent	Amount
Labor	37.56%	\$221,764
Material	43.10%	\$254,437
Equipment	14.43%	\$85,173
Subcontractor	0.00%	\$0
Other	4.91%	\$29,002
Net Costs		\$590,376
Labor Mark-up	18.00%	\$39,918
Material Mark-up	15.00%	\$38,166
Subcontractor Mark-up	5.00%	\$0
Equipment Mark-up	15.00%	\$12,776
Sales tax (material)	7.75%	\$19,719
Sales tax (equipment)	7.75%	\$6,601
Material Shipping & Handling	2.50%	\$6,361
Worker's Travel/Subsistence	0.10%	\$222
Subtotal		\$714,138
Contractor General Conditions	12.00%	\$85,697
Subtotal		\$799,834
Earthquake Insurance	0.10%	\$800
Subtotal		\$800,634
Construction Contingency	20.00%	\$160,127
Subtotal		\$960,761
Bldg Risk, Liability Auto Ins.	2.00%	\$19,215
Subtotal		\$979,976
Performance Bond	1.00%	\$9,800
Payment Bond	1.00%	\$9,800
Subtotal		\$999,575
Engineering Fee	10.00%	\$59,038
Environmental Permitting (Lump Sum)	-	\$10,000
Total Estimate		\$1,068,613



Project Number:: 128290

Client:: City of Carlsbad

Estimator(s):: JW / DG

Estimating Office:: Walnut Creek

Estimate Issue Number:: 01

Estimate Original Issue Date::

Estimate Revision Number:: 04

Estimate Revision Date:: 6/27/2008

BC Project Manager:: Chris Herencia
Estimate QA/QC Reviewer:: Bob Ferguson
Estimate QA/QC Date:: 6/27/2008

PROJECT LOCATION / PROCESS AREA

**Project BCB** 

Item	Item Description	Quantity	Unit	Labor \$/Unit	Labor Amount	Materials \$/Unit	Materials Amount	Equip \$/Unit	Equip Amount	Total \$/Unit	Subs Amount	Other Amount	Grand Total
Project E	BCB												
01 - GEI	NERAL REQUIREMENTS												
01200 -	General equipment rental								•				
	Trench box, 9500 lbs, 8'x 20'	12	Day	\$0.00	\$0.00	\$0.00	\$0.00	\$240.00	\$2,880.00	\$240 / Day	\$0.00	\$0.00	\$2,880.00
	Trench Plates allowance	1	Мо	\$0.00	\$0.00	\$0.00	\$0.00	\$900.00	\$900.00	\$900 / Mo			\$900.00
	GENERAL REQUIREMENTS Total				\$0.00		\$0.00		\$3,780.00		\$0.00	\$0.00	\$3,780.00
00 CIT	E CONSTRUCTION												
02 - 311	E CONSTRUCTION												
02020 -	Underground marking tape												
02020 -	Underground tape, detectable aluminum, 2"	9.25	Clf	\$2.34	\$21.65	\$3.06	\$28.31	\$0.00	\$0.00	\$5.4 / Clf	\$0.00	\$0.00	\$49.95
	Officerground tape, detectable aluminum, 2	9.25	CII	\$2.34	\$21.00	\$3.00	\$20.31	φυ.υυ	\$0.00	\$5.4 / CII	\$0.00	\$0.00	φ49.90
02060 -	Site demolition												
02000 -	Site derivation Site dml, no hauling, pavement removal, bit, 4" to 6" thick	620	Sqyd	\$5.29	\$3,279.80	\$0.00	\$0.00	\$3.49	\$2,163.80	\$8.78 / Sqyd	\$0.00	\$0.00	\$5,443.60
	Asphalt disposal - hauling and disposal fee, 4" thick	620	Sqyd	\$1.00	\$620.00	\$4.70	\$2,914.00	\$1.32	\$818.40	\$7.02 / Sqyd		\$0.00	\$4,352.40
	rioprian dioposal induming and dioposal roof it this.	020	04)0	ψ1.00	Ψ020.00	<b>\$</b> 5	\$2,01 HOO	Ψ	ψο τοι το	ψoz, σq) α	ψ0.00	ψ0.00	ψ 1,002.10
02170 -	Saw cutting												
	Saw cutting, asphalt, up to 3" deep	1,859.00	Lnft	\$0.48	\$892.32	\$0.07	\$130.13	\$0.26	\$483.34	\$0.81 / Lnft	\$0.00	\$0.00	\$1,505.79
	Saw cutting, asphalt, after 3" deep; each addl inch of depth	1,859.00	Lnft	\$0.82	\$1,524.38	\$0.30	\$557.70	\$0.44		\$1.56 / Lnft		\$0.00	\$2,900.04
	g, asprain, and a sep, and a sep,	.,		70.00	<b>V</b> 1,02 1100	70.00	***************************************	*****		¥	******	70.00	<del>*</del> _,
02310 -	Fine grade												
	Fine grade under asphalt	620	Sqyd	\$0.26	\$161.20	\$0.00	\$0.00	\$0.21	\$130.20	\$0.47 / Sqyd	\$0.00	\$0.00	\$291.40
										.,			
02340 -	Bedding												
	Bedding, crushed stone 3/4" to 1/2"	628	Cuyd	\$8.47	\$5,319.16	\$32.03	\$20,114.84	\$1.89	\$1,186.92	\$42.39 / Cuyd	\$0.00	\$0.00	\$26,620.92
	Backfill, dozer backfilling, trench, no compaction	628	Cuyd	\$0.80	\$502.40	\$0.00	\$0.00	\$1.28	\$803.84	\$2.08 / Cuyd	\$0.00	\$0.00	\$1,306.24
02360 -	Compaction												
	Backfill Compaction, walk behind, vibrating roller 24" W, 6" lifts, 2	565.3	Cuyd	\$1.72	\$972.32	\$0.00	\$0.00	\$0.41	\$231.77	\$2.13 / Cuyd	\$0.00	\$0.00	\$1,204.09
	Subgrade Compaction, rammer tamper, 6" to 11", 4" lifts, 2 passes	94.2	Cuyd	\$2.93	\$276.01	\$0.00	\$0.00	\$0.78		\$3.71 / Cuyd		\$0.00	\$349.48
	Bedding Compaction, rammer tamper, 6" to 11", 4" lifts, 2 passes	585.5	Cuyd	\$2.93	\$1,715.52	\$0.00	\$0.00	\$0.78	\$456.69	\$3.71 / Cuyd	\$0.00	\$0.00	\$2,172.21
02450 -	Excavating, trench												
	Excavate trench, common earth curb, 6'-10' deep, 1-1/2 CY hyd	1,319.00	Cuyd	\$1.76	\$2,321.44	\$0.00	\$0.00	\$1.28	\$1,688.32	\$3.04 / Cuyd	\$0.00	\$0.00	\$4,009.76
02460 -	Hauling						*					***	
	Hauling, LCY, no loading, 12 c.y. dump truck, 20 MI RT, 0.4 lds/hr	1,517.00	Cuyd	\$7.18	\$10,892.06	\$3.00	\$4,551.00	\$15.45	+ -,	\$25.63 / Cuyd		* * * * * * * * * * * * * * * * * * * *	\$38,875.08
	Loading Trucks, F.E. Loader, 3 C.Y	1,517.00	Cuyd	\$0.74	\$1,122.58	\$0.00	\$0.00	\$1.24	\$1,881.08	\$1.98 / Cuyd		\$0.00	\$3,003.66
	Disposal fee	76	Trk	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$105 / Trk	\$0.00	\$7,964.25	\$7,964.25
00.400	Erosion control												
02490 -	Erosion control allowance:	4	Lsum	<b>©</b> 0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	COC44/1 aum	\$0.00	£2.044.00	PO 044 00
	Erosion control allowance:	- 1	LSum	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$2614 / Lsum	\$0.00	\$2,614.00	\$2,614.00
02570 -	Catch basins or manholes												
02370-	Catch basins or manholes, concrete, precast, 5' l.D., 8' deep	1	Each	\$846.67	\$3,386.68	\$1,475.00	\$5,900.00	\$189.01	\$756.04	\$2510.68 / Each	\$0.00	\$0.00	\$10,042.72
	Cleanout	2	Each	\$1,019.00	\$3,057.00	\$1,475.00	\$4,680.00	\$249.00	\$747.00	\$2828 / Each	\$0.00	\$0.00	\$8,484.00
	CB or manholes, conc, slab tops, precast, 8" thick, 5' dia	Л	Each	\$169.33	\$677.32	\$395.00	\$1,580.00	\$37.80	\$151.20	\$602.13 / Each	\$0.00	\$0.00	\$2,408.52
	Catch bsns or manholes, frs and covs, hvy traffic, 24" diam, 400 lb.	4	Each	\$162.82	\$651.28	\$260.00	\$1,040.00	\$36.35			\$0.00	\$0.00	\$1,836.68
	CB or manholes, inverts, single channel brick, concrete	4	Each	\$144.00	\$576.00	\$100.00	\$400.00	\$0.00	\$0.00	\$244 / Each	\$0.00	\$0.00	\$976.00
	CB/manholes, steps, heavyweight cast iron, 12" x 10-1/2", for all con	16		\$9.66	\$154.56	\$23.00	\$368.00	\$0.00	\$0.00	\$32.66 / Each	\$0.00	\$0.00	\$522.56
	Difficilitions, steps, fleavyweight cast from, 12 × 10-1/2 , for all con-	10	Lacii	ψ3.00	ψ154.50	Ψ25.00	ψ500.00	ψ0.00	Ψ0.00	ψ02.00 / LαCΠ	Ψ0.00	Ψ0.00	ψυΖΖ.υυ
02610 -	Asphalt concrete pavement												
	Asphaltic conc pavement, pavement replacement over trench, 4"	620	Sqyd	\$35.00	\$21,700.00	\$18.00	\$11,160.00	\$2.98	\$1,847.60	\$55.98 / Sqyd	\$0.00	\$0.00	\$34,707.60
			~q, u	Ψ00.00	Ψ= . , . 00.00	Ψ.σ.σο	Ψ,	Ψ=.00	Ψ.,σ.1.00	Joolog, Jaya	Ψ0.00		Ψο .,. στ.ου

Item	Item Description	Quantity	Unit	Labor \$/Unit	Labor Amount	Materials \$/Unit	Materials Amount	Equip \$/Unit	Equip Amount	Total \$/Unit	Subs Amount	Other Amount	Grand Total
02640 -	Lines on pav't												
	Lines on pvmt, acrylic waterborne, white or yellow, 4" wide	925	Lnft	\$0.12	\$111.00	\$0.17	\$157.25	\$0.08	\$74.00	\$0.37 / Lnft	\$0.00	\$0.00	\$342.25
02840 -	Landscaping												
	Landscaping Allowance	1	Lsum	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$5000 / Lsum	\$5,000.00	\$0.00	\$5,000.00
	Traffic Control Allowance: 2 flaggers, 15' pipe/hr	1	Lsum	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$4878 / Lsum	\$0.00	\$4,878.00	\$4,878.00
02900 -	L Pot Holing												
	Pot Holing - pipe lines: 2 per 100'	18	Each	\$250.00	\$4,500.00	\$0.00	\$0.00	\$35.00	\$630.00	\$285 / Each	\$0.00	\$0.00	\$5,130.00
	SITE CONSTRUCTION Total				\$64,434.66		\$53,581.23		\$38,519.06		\$5,000.00	\$15,456.25	\$176,991.19
03 - COI	NCRETE												
03330 -	Patching concrete												
	Patching conc, wall, wall penetration, non-shrink grout, 30" hole	8	Each	\$75.38	\$603.04	\$238.50	\$1,908.00	\$0.00	\$0.00	\$313.88 / Each	\$0.00	\$0.00	\$2,511.04
	CONCRETE Total			*******	\$603.04	7-2000	\$1,908.00	*****	\$0.00	***************************************	\$0.00	\$0.00	\$2,511.04
15 - ME	 CHANICAL												
15090 -	Pipe,drng&sewage,concret												
70000	Piping, drainage & sewage, RCP, class 3, no gaskets, 30" dia	925	Lnft	\$32.48	\$30.044.00	\$43.00	\$39,775.00	\$3.22	\$2,978,50	\$78.7 / Lnft	\$0.00	\$0.00	\$72,797,50
	Piping, water dist, conc pipe, gasket, 30" dia	92	Each	\$3.14	\$288.88	\$6.00	\$552.00	\$0.00	\$0.00	\$9.14 / Each	\$0.00	\$0.00	\$840.88
	MECHANICAL Total				\$30,332.88		\$40,327.00		\$2,978.50		\$0.00	\$0.00	\$73,638.38
	Project BCB Total				\$95,370.58		\$95,816.23		\$45,277.56		\$5,000.00	\$15,456.25	\$256,920.61
	Grand Total				\$95,370.58		\$95,816.23		\$45,277.56		\$5,000.00	\$15,456.25	\$256,920.61

Category	Percent	Amount
Labor	37.12%	\$95,371
Material	37.29%	\$95,816
Equipment	17.62%	\$45,278
Subcontractor	1.95%	\$5,000
Other	6.02%	\$15,456
Net Costs		\$256,921
Labor Mark-up	18.00%	\$17,167
Material Mark-up	15.00%	\$14,372
Subcontractor Mark-up	5.00%	\$250
Equipment Mark-up	15.00%	\$6,792
Sales tax (material)	7.75%	\$7,426
Sales tax (equipment)	7.75%	\$3,509
Material Shipping & Handling	2.50%	\$2,395
Worker's Travel/Subsistence	0.10%	\$95
Subtotal		\$308,927
Contractor General Conditions	12.00%	\$37,071
Subtotal		\$345,998
Earthquake Insurance	0.10%	\$346
Subtotal		\$346,344
Construction Contingency	20.00%	\$69,269
Subtotal		\$415,613
Bldg Risk, Liability Auto Ins.	2.00%	\$8,312
Subtotal		\$423,925
Performance Bond	1.00%	\$4,239
Payment Bond	1.00%	\$4,239
Subtotal		\$432,404
Engineering Fee	10.00%	\$25,692
Environmental Permitting (Lump Sum)	-	\$10,000
Total Estimate		\$468,096



Project Number:: 128290

Client:: City of Carlsbad

Estimator(s):: JW / DG

Estimating Office:: Walnut Creek

Estimate Issue Number:: 01

Estimate Original Issue Date:: 3/14/2006

Estimate Revision Number:: 04

Estimate Revision Date:: 6/27/2008

BC Project Manager:: Chris Herencia
Estimate QA/QC Reviewer:: Butch Matthews

Estimate QA/QC Date:: 6/27/2008

PROJECT LOCATION / PROCESS AREA

Project BCC - Located in Basin B

Item	Item Description	Quantity	Unit	Labor \$/Unit	Labor Amount	Materials \$/Unit	Materials Amount	Equip \$/Unit	Equip Amount	Total \$/Unit	Subs Amount	Other Amount	Grand Total
Project E													
01 - GEI	NERAL REQUIREMENTS												
01200 -	General equipment rental	40	D	<b>#0.00</b>	<b>#0.00</b>	<b>#0.00</b>	<b>#0.00</b>	<b>#040.00</b>	<b>#0.000.00</b>	#0.40 / D	<b>#</b> 0.00	<b>#0.00</b>	<b>#0.000.00</b>
	Trench box, 9500 lbs, 8'x 20' Trench Plates allowance	12	Day Mo	\$0.00 \$0.00	\$0.00 \$0.00	\$0.00 \$0.00	\$0.00 \$0.00	\$240.00 \$900.00	\$2,880.00 \$900.00	\$240 / Day \$900 / Mo	\$0.00 \$0.00	\$0.00 \$0.00	\$2,880.00 \$900.00
	GENERAL REQUIREMENTS Total	- 1	IVIO	\$0.00	\$0.00 \$0.00	\$0.00	\$0.00 \$0.00	\$900.00	\$3,780.00	\$900 / INIO	\$0.00	\$0.00	\$3,780.00
	OENEIVAE NE QUINEIVIO TOTAL				Ψ0.00		ψ0.00		ψ5,700.00		Ψ0.00	ψ0.00	ψ5,700.00
02 - SIT	E CONSTRUCTION												
02020 -	Underground marking tape												
	Underground tape, detectable aluminum, 2"	9.25	Clf	\$2.34	\$21.65	\$3.06	\$28.31	\$0.00	\$0.00	\$5.4 / Clf	\$0.00	\$0.00	\$49.95
02060 -	Site demolition												
	Site dml, no hauling, pavement removal, bit, 4" to 6" thick	620	Sqyd	\$5.29		\$0.00	\$0.00	\$3.49		\$8.78 / Sqyd		\$0.00	\$5,443.60
	Asphalt disposal - hauling and disposal fee, 4" thick	620	Sqyd	\$1.00	\$620.00	\$4.70	\$2,914.00	\$1.32	\$818.40	\$7.02 / Sqyd	\$0.00	\$0.00	\$4,352.40
02170	Saw cutting					-							
02170 -	Saw cutting Saw cutting, asphalt, up to 3" deep	1,859.0	Lnft	\$0.48	\$892.32	\$0.07	\$130.13	\$0.26	\$483.34	\$0.81 / Lnft	\$0.00	\$0.00	\$1,505.79
	Saw cutting, asphalt, after 3" deep; each addl inch of depth	1,859.00	Lnft	\$0.46		\$0.30	\$557.70	\$0.20		\$1.56 / Lnft		\$0.00	\$2,900.04
	Saw cutting, asphalt, alter 3 deep, each addring or depth	1,039.00	LIIIL	Ψ0.02	\$1,324.30	φ0.30	φ337.70	φυ.44	Φ017.90	\$1.50 / LIII	\$0.00	φ0.00	\$2,900.04
02310 -	Fine grade												
	Fine grade under asphalt	620	Sgyd	\$0.26	\$161.20	\$0.00	\$0.00	\$0.21	\$130.20	\$0.47 / Sqyd	\$0.00	\$0.00	\$291.40
						·	,		·				
02340 -	Bedding												
	Bedding, crushed stone 3/4" to 1/2"	911.4	Cuyd	\$8.47	\$7,719.56	\$32.03	\$29,192.14	\$1.89	\$1,722.55	\$42.39 / Cuyd	\$0.00	\$0.00	\$38,634.25
	Backfill, dozer backfilling, trench, no compaction	1463	Cuyd	\$0.80	\$1,170.40	\$0.00	\$0.00	\$1.28	\$1,872.64	\$2.08 / Cuyd	\$0.00	\$0.00	\$3,043.04
02360 -	Compaction												
	Backfill Compaction, walk behind, vibrating roller 24" W, 6" lifts, 2	668.1	Cuyd	\$1.72		\$0.00	\$0.00	\$0.41	\$273.92	\$2.13 / Cuyd		\$0.00	\$1,423.05
	Subgrade Compaction, rammer tamper, 6" to 11", 4" lifts, 2 passes  Bedding Compaction, rammer tamper, 6" to 11", 4" lifts, 2 passes	111.3 783.8	Cuyd Cuyd	\$2.93 \$2.93		\$0.00 \$0.00	\$0.00 \$0.00	\$0.78 \$0.78		\$3.71 / Cuyd \$3.71 / Cuyd		\$0.00 \$0.00	\$412.92 \$2,907.90
	Bedding Compaction, rammer tamper, 6 to 11, 4 lifts, 2 passes	703.0	Cuya	\$2.93	\$2,296.53	\$0.00	\$0.00	\$0.78	\$611.36	\$3.717 Cuyu	\$0.00	\$0.00	\$2,907.90
02450 -	Excavating, trench												
02-100	Excavate trench, common earth curb, 6'-10' deep, 1-1/2 CY hyd	1900	Cuyd	\$1.76	\$3.344.00	\$0.00	\$0.00	\$1.28	\$2,432.00	\$3.04 / Cuyd	\$0.00	\$0.00	\$5,776.00
	Excavate trollori, common earth outs, o 10 deep; 1 1/2 of hyd	1000	Ouyu	ψι.ιο	ψ0,011.00	ψ0.00	ψ0.00	Ψ1.20	Ψ2, 402.00	ψο.ο+7 Odyd	ψ0.00	ψ0.00	ψο,770.00
02460 -	Hauling												
	Hauling, LCY, no loading, 12 c.y. dump truck, 20 MI RT, 0.4 lds/hr	627	Cuyd	\$7.18	\$4,501.86	\$3.00	\$1,881.00	\$15.45	\$9,684.82	\$25.63 / Cuyd	\$0.00	\$0.00	\$16,067.68
	Loading Trucks, F.E. Loader, 3 C.Y	627	Cuyd	\$0.74	\$463.98	\$0.00	\$0.00	\$1.24	\$777.48	\$1.98 / Cuyd	\$0.00	\$0.00	\$1,241.46
	Disposal fee	31	Trk	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$105 / Trk	\$0.00	\$3,291.75	\$3,291.75
02490 -	Erosion control												
	Erosion control allowance:	1	Lsum	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$2614 / Lsum	\$0.00	\$2,614.00	\$2,614.00
02570	Catch basins or manholes												
02570 -	Catch basins or manholes  Catch basins or manholes, concrete, precast, 5' I.D., 8' deep	4	Each	\$846.67	\$3,386.68	\$1,475.00	\$5,900.00	\$189.01	\$7EC 04	\$2510.68 / Each	\$0.00	\$0.00	\$10,042.72
	Cleanout	2	Each	\$1,019.00	\$3,057.00	\$1,475.00	\$4,680.00	\$189.01		\$2828 / Each	\$0.00	\$0.00	\$10,042.72
	CB or manholes, conc, slab tops, precast, 8" thick, 5' dia	4	Each	\$169.33	\$677.32	\$395.00	\$1,580.00	\$37.80	\$151.20	\$602.13 / Each		\$0.00	\$2,408.52
	Catch bsns or manholes, frs and covs, hvy traffic, 24" diam, 400 lb.	4	Each	\$162.82		\$260.00	\$1,040.00	\$36.35		\$459.17 / Each	\$0.00	\$0.00	\$1,836.68
	CB or manholes, inverts, single channel brick, concrete	4	Each	\$144.00	\$576.00	\$100.00	\$400.00	\$0.00		\$244 / Each	\$0.00	\$0.00	\$976.00
	CB/manholes, steps, heavyweight cast iron, 12" x 10-1/2", for all con	16		\$9.66		\$23.00	\$368.00	\$0.00		\$32.66 / Each	\$0.00	\$0.00	\$522.56
02610 -	Asphalt concrete pavement				-		-			<del></del>			<del></del>
	Asphaltic conc pavement, pavement replacement over trench, 4"	620	Sqyd	\$35.00	\$21,700.00	\$18.00	\$11,160.00	\$2.98	\$1,847.60	\$55.98 / Sqyd	\$0.00	\$0.00	\$34,707.60

Item	Item Description	Quantity	Unit	Labor \$/Unit	Labor Amount	Materials \$/Unit	Materials Amount	Equip \$/Unit	Equip Amount	Total \$/Unit	Subs Amount	Other Amount	Grand Total
02640 -	Lines on pav't												
	Lines on pvmt, acrylic waterborne, white or yellow, 4" wide	925	Lnft	\$0.12	\$111.00	\$0.17	\$157.25	\$0.08	\$74.00	\$0.37 / Lnft	\$0.00	\$0.00	\$342.25
02840 -	Landscaping												
	Landscaping Allowance	1	Lsum	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$5000 / Lsum	\$5,000.00	\$0.00	\$5,000.00
	Traffic Control Allowance: 2 flaggers, 15' pipe/hr	1	Lsum	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$4878 / Lsum	\$0.00	\$4,878.00	\$4,878.00
02900 -	Pot Holing												
	Pot Holing - pipe lines: 2 per 100'	18	Each	\$250.00	\$4,500.00	\$0.00	\$0.00	\$35.00	\$630.00	\$285 / Each	\$0.00	\$0.00	\$5,130.00
	SITE CONSTRUCTION Total				\$62,284.76		\$59,988.53		\$26,226.53		\$5,000.00	\$10,783.75	\$164,283.56
03 - CO	NCRETE												
03330 -	Patching concrete												
	Patching conc, wall, wall penetration, non-shrink grout,	8	Each	\$75.38	\$603.04	\$286.20	\$2,289.60	\$0.00	\$0.00	\$361.58 / Each	\$0.00	\$0.00	\$2,892.64
	CONCRETE Total				\$603.04		\$2,289.60		\$0.00		\$0.00	\$0.00	\$2,892.64
15 - ME	CHANICAL												
15090 -	Pipe,drng&sewage,concret												
	Piping, drainage & sewage, RCP, class 3, no gaskets, 36" dia	925	Lnft	\$39.70	\$36,722,50	\$73.00	\$67.525.00	\$3.94	\$3.644.50	\$116.64 / Lnft	\$0.00	\$0.00	\$107,892.00
	Piping, water dist, conc pipe, gasket, 36" dia	92	Each	\$3.14	\$288.88	\$6.50	\$598.00	\$0.00	\$0.00	\$9.64 / Each	\$0.00	\$0.00	\$886.88
	MECHANICAL Total			·	\$37,011.38		\$68,123.00		\$3,644.50		\$0.00	\$0.00	\$108,778.88
	Project BCC Total				\$99,899.18		\$130,401.13		\$33,651.03		\$5,000.00	\$10,783.75	\$279,735.08
	Grand Total				\$99,899.18		\$130,401.13		\$33,651.03		\$5,000.00	\$10,783.75	\$279,735.08

Category	Percent	Amount
Labor	35.71%	\$99,899
Material	46.62%	\$130,401
Equipment	12.03%	\$33,651
Subcontractor	1.79%	\$5,000
Other	3.85%	\$10,784
Net Costs		\$279,735
Labor Mark-up	18.00%	\$17,982
Material Mark-up	15.00%	\$19,560
Subcontractor Mark-up	5.00%	\$250
Equipment Mark-up	15.00%	\$5,048
Sales tax (material)	7.75%	\$10,106
Sales tax (equipment)	7.75%	\$2,608
Material Shipping & Handling	2.50%	\$3,260
Worker's Travel/Subsistence	0.10%	\$100
Subtotal		\$338,649
Contractor General Conditions	12.00%	\$40,638
Subtotal		\$379,287
Earthquake Insurance	0.10%	\$379
Subtotal		\$379,666
Construction Contingency	20.00%	\$75,933
Subtotal		\$455,599
Bldg Risk, Liability Auto Ins.	2.00%	\$9,112
Subtotal		\$464,711
Performance Bond	1.00%	\$4,647
Payment Bond	1.00%	\$4,647
Subtotal		\$474,005
Engineering Fee	10.00%	\$27,974
Environmental Permitting (Lump Sum)	-	\$10,000
Total Estimate		\$511,979



Project Number:: 128290

Client:: City of Carlsbad

Estimator(s):: JW / DG

Estimating Office:: Walnut Creek

Estimate Issue Number:: 01

Estimate Original Issue Date:: 3/14/2006

Estimate Revision Number:: 04

Estimate Revision Date:: 6/27/2008

BC Project Manager:: Chris Herencia
Estimate QA/QC Reviewer:: Butch Matthews

Estimate QA/QC Date:: 6/27/2008

PROJECT LOCATION / PROCESS AREA

Project BFA - Located in Basin B

Item	Item Description	Quantity	Unit	Labor \$/Unit	Labor Amount	Materials \$/Unit	Materials Amount	Equip \$/Unit	Equip Amount	Total \$/Unit	Subs Amount	Other Amount	Grand Total
Project E	BFA												
04 05	NERAL REQUIREMENTS												
UI - GEI	VERAL REQUIREMENTS												
01200 -	General equipment rental												
01200	Trench box, 9500 lbs, 8'x 20'	20	Day	\$0.00	\$0.00	\$0.00	\$0.00	\$240.00	\$4,800.00	\$240 / Day	\$0.00	\$0.00	\$4,800.00
	Treflett box, coco ibo, ox 20		Duj	Ψ0.00	ψ0.00	ψ0.00	ψ0.00	Ψ2 10.00	<b>\$ 1,000.00</b>	ψ <u>2</u> 10 / Dαy	ψ0.00	ψοισσ	ψ.,οσσ.σσ
	GENERAL REQUIREMENTS Total				\$0.00		\$0.00		\$4,800.00		\$0.00	\$0.00	\$4,800.00
02020 -	Underground marking tape			****	***			****		A			
	Underground tape, detectable aluminum, 2"	16	Clf	\$2.34	\$37.44	\$3.06	\$48.96	\$0.00	\$0.00	\$5.4 / Clf	\$0.00	\$0.00	\$86.40
02060 -	Site demolition												
02000 -	Site dml, no hauling, pavement removal, bit, 4" to 6" thick	1072	Sqyd	\$5.29	\$5,670.88	\$0.00	\$0.00	\$3.49	\$3,741.28	\$8.78 / Sqyd	\$0.00	\$0.00	\$9,412.16
	Asphalt disposal - hauling and disposal fee, 4" thick	1072	Sqyd	\$1.00	\$1,072.00	\$4.70	\$5,038.40	\$1.32		\$7.02 / Sqyd			\$7,525.44
				*****	¥ 1,01 =100	¥ v	40,000.10	¥=	<b>V</b> 1,112121	¥	70.00	70.00	**,,===**
02170 -	Saw cutting												
	Saw cutting, asphalt, up to 3" deep	3214	Lnft	\$0.48	\$1,542.72	\$0.07	\$224.98	\$0.26		\$0.81 / Lnft			\$2,603.34
	Saw cutting, asphalt, after 3" deep; each addl inch of depth	3214	Lnft	\$0.82	\$2,635.48	\$0.30	\$964.20	\$0.44	\$1,414.16	\$1.56 / Lnft	\$0.00	\$0.00	\$5,013.84
02210 -	Fine grade												
02310-	Fine grade under asphalt	1072	Sqyd	\$0.26	\$278.72	\$0.00	\$0.00	\$0.21	\$225.12	\$0.47 / Sqyd	\$0.00	\$0.00	\$503.84
	i ine grade dider asprian	1072	Oqyu	Ψ0.20	Ψ210.12	ψ0.00	ψ0.00	Ψ0.21	ΨΖΖ3.12	ψυ.+ <i>i</i> / Oqyα	Ψ0.00	φ0.00	ψ303.04
02340 -	Bedding												
	Bedding, crushed stone 3/4" to 1/2"	1577	Cuyd	\$8.47	\$13,357.19	\$32.03	\$50,511.31	\$1.89	\$2,980.53	\$42.39 / Cuyd	\$0.00	\$0.00	\$66,849.03
	Backfill, dozer backfilling, trench, no compaction	2373	Cuyd	\$0.80	\$1,898.51	\$0.00	\$0.00	\$1.28	\$3,037.62	\$2.08 / Cuyd	\$0.00	\$0.00	\$4,936.13
02360 -	Compaction							****					
	Backfill Compaction, walk behind, vibrating roller 24" W, 6" lifts, 2	2373	Cuyd	\$1.72		\$0.00 \$0.00	\$0.00	\$0.41 \$0.78	\$972.99	\$2.13 / Cuyd			\$5,054.79
	Subgrade Compaction, rammer tamper, 6" to 11", 4" lifts, 2 passes  Bedding Compaction, rammer tamper, 6" to 11", 4" lifts, 2 passes	193 1356	Cuyd Cuyd	\$2.93 \$2.93		\$0.00	\$0.00 \$0.00	\$0.78 \$0.78		\$3.71 / Cuyd \$3.71 / Cuyd			\$714.55 \$5,030.76
	beduing Compaction, familier tamper, or to 11, 4 lints, 2 passes	1330	Cuyu	Ψ2.93	ψ3,973.00	φ0.00	φυ.υυ	ψ0.70	\$1,037.00	φ3.7 1 / Cuyu	\$0.00	φυ.υυ	\$5,030.70
02450 -	Excavating, trench												
	Excavate trench, common earth curb, 6'-10' deep, 1-1/2 CY hyd	3082	Cuyd	\$1.76	\$5,424.32	\$0.00	\$0.00	\$1.28	\$3,944.96	\$3.04 / Cuyd	\$0.00	\$0.00	\$9,369.28
						·	·						
02460 -	Hauling												
	Hauling, LCY, no loading, 12 c.y. dump truck, 20 MI RT, 0.4 lds/hr	1017	Cuyd	\$7.18		\$3.00	\$3,051.18	\$15.45	* -,	\$25.63 / Cuyd			\$26,063.47
	Loading Trucks, F.E. Loader, 3 C.Y	1017	Cuyd	\$0.74		\$0.00	\$0.00	\$1.24	. ,	\$1.98 / Cuyd			\$2,013.78
	Disposal fee	51	Trk	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$105 / Trk	\$0.00	\$5,339.57	\$5,339.57
02/100 =	Erosion control												
02400-	Erosion control allowance:	1	Lsum	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$2614 / Lsum	\$0.00	\$2,614.00	\$2,614.00
		'	_00111	ψ0.00	Ψ0.00	ψ0.00	ψ0.00	ψ0.00	\$0.00	Ψ20.47 L00III	ψ0.00	\$2,017.00	Ψ2,01-7.00
02570 -	Catch basins or manholes							_					
	Catch basins or manholes, concrete, precast, 5' I.D., 8' deep	9	Each	\$846.67	\$7,620.03	\$1,475.00	\$13,275.00	\$189.01		\$2510.68 / Each	\$0.00		\$22,596.12
	Cleanout	5	Each	\$1,019.00	\$5,095.00	\$1,560.00	\$7,800.00	\$249.00	\$1,245.00	\$2828 / Each	\$0.00		\$14,140.00
	CB or manholes, conc, slab tops, precast, 8" thick, 5' dia	9	Each	\$169.33	\$1,523.97	\$395.00	\$3,555.00	\$37.80		\$602.13 / Each	\$0.00		\$5,419.17
	Catch bsns or manholes, frs and covs, hvy traffic, 24" diam, 400 lb.	9	Each	\$162.82		\$260.00	\$2,340.00	\$36.35					\$4,132.53
	CB or manholes, inverts, single channel brick, concrete	9	Each	\$144.00	\$1,296.00	\$100.00	\$900.00	\$0.00	\$0.00	\$244 / Each	\$0.00		\$2,196.00
	CB/manholes, steps, heavyweight cast iron, 12" x 10-1/2", for all con	45	Each	\$9.66	\$434.70	\$23.00	\$1,035.00	\$0.00	\$0.00	\$32.66 / Each	\$0.00	\$0.00	\$1,469.70
02580 -	Headwall												
02000 -	Headwall, conc, CIP, 30< skewed wingwall,	2	Each	\$5,480.00	\$10,960.00	\$2,173.00	\$4,346.00	\$138.00	\$276.00	\$7791 / Each	\$0.00	\$0.00	\$15,582.00
		2	_0011	<b>\$5,.00.00</b>	\$.0,000.00	ψ=, 17 0.00	ψ 1,0-10.00	Ψ100.00	Ψ27 0.00	ψ517 Edon	ψ0.00	ψ0.00	\$10,00£.00

Item	Item Description	Quantity	Unit	Labor \$/Unit	Labor Amount	Materials \$/Unit	Materials Amount	Equip \$/Unit	Equip Amount	Total \$/Unit	Subs Amount	Other Amount	Grand Total
02610 -	Asphalt concrete pavement												
	Asphaltic conc pavement, pavement replacement over trench, 4"	1072	Sqyd	\$35.00	\$37,520.00	\$18.00	\$19,296.00	\$2.98	\$3,194.56	\$55.98 / Sqyd	\$0.00	\$0.00	\$60,010.56
00040	Linear and the second s												
02640 -	Lines on pav t  Lines on pvmt, acrylic waterborne, white or yellow, 4" wide	1600	Lnft	\$0.12	\$192.00	\$0.17	\$272.00	\$0.08	\$128.00	\$0.37 / Lnft	\$0.00	\$0.00	\$592.00
	, , , , , , , , , , , , , , , , , , , ,			* -			•	*			•	, , , , , ,	
02840 -	Landscaping												
	Landscaping Allowance	1	Lsum	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$5000 / Lsum	\$5,000.00	\$0.00	\$5,000.00
02900 -	Pot Holing												
	Pot Holing - pipe lines: 2 per 100'	32	Each	\$250.00	\$8,000.00	\$0.00	\$0.00	\$35.00	\$1,120.00	\$285 / Each	\$0.00	\$0.00	\$9,120.00
									0.5.55				
	SITE CONSTRUCTION Total				\$122,698.66		\$112,658.03		\$45,078.20		\$5,000.00	\$7,953.57	\$293,388.45
03 - CO	NCRETE												
03330 -	Patching concrete												
	Pre-cast concrete wall penetration, non-shrink grout, 42" hole	18	Each	\$100.00	\$1,800.00	\$240.00	\$4,320.00	\$0.00	\$0.00	\$340 / Each	\$0.00	\$0.00	\$6,120.00
	CONCRETE Total				\$1,800.00		\$4,320.00		\$0.00		\$0.00	\$0.00	\$6,120.00
15 - ME	CHANICAL Piping, drainage & sewage, RCP, class 3, no gaskets, 42" dia	1600	Lnft	\$39.70	\$63.520.00	\$95.00	\$152,000.00	\$3.94	\$6,304.00	\$138.64 / Lnft	\$0.00	\$0.00	\$221.824.00
	Piping, water dist, conc pipe, gasket, 42" dia	1600	Each	\$39.70	\$502.40	\$9.50	\$1,520.00	\$0.00		\$12.64 / Each	\$0.00	\$0.00	\$2,022.40
	r pring, materials, each pripe, galaxies, in a second			****	ÇODANIO	40.00	<b>7</b> 1,523.33	70.00	73.30	Ç TENGT TY ESTA	7333	70.00	<b>V</b> =,0==0
					4-1								
	MECHANICAL Total				\$64,022.40		\$153,520.00		\$6,304.00		\$0.00	\$0.00	\$223,846.40
	Project BFA Total				\$188,521.06		\$270,498.03		\$56,182.20		\$5,000.00	\$7,953.57	\$528,154.85
	Grand Total				\$188,521.06		\$270,498.03		\$56,182.20		\$5,000.00	\$7,953.57	\$528,154.85

Category	Percent	Amount
Labor	35.69%	\$188,521
Material	51.22%	\$270,498
Equipment	10.64%	\$56,182
Subcontractor	0.95%	\$5,000
Other	1.51%	\$7,954
Net Costs		\$528,155
Labor Mark-up	18.00%	\$33,934
Material Mark-up	15.00%	\$40,575
Subcontractor Mark-up	5.00%	\$250
Equipment Mark-up	15.00%	\$8,427
Sales tax (material)	7.75%	\$20,964
Sales tax (equipment)	7.75%	\$4,354
Material Shipping & Handling	2.50%	\$6,762
Worker's Travel/Subsistence	0.10%	\$189
Subtotal		\$643,609
Contractor General Conditions	12.00%	\$77,233
Subtotal		\$720,842
Earthquake Insurance	0.10%	\$721
Subtotal		\$721,563
Construction Contingency	20.00%	\$144,313
Subtotal		\$865,876
Bldg Risk, Liability Auto Ins.	2.00%	\$17,318
Subtotal		\$883,194
Performance Bond	1.00%	\$8,832
Payment Bond	1.00%	\$8,832
Subtotal		\$900,857
Engineering Fee	10.00%	\$52,815
Environmental Permitting (Lump Sum)	-	\$10,000
Total Estimate		\$963,673



Project Number:: 128290

Client:: City of Carlsbad

Estimator(s):: SB / DG

Estimating Office:: Walnut Creek

Estimate Issue Number:: 01

Estimate Original Issue Date:: 5/12/2006

Estimate Revision Number:: 04

Estimate Revision Date:: 6/27/2008

BC Project Manager:: Chris Herencia
Estimate QA/QC Reviewer:: Bob Ferguson
Estimate QA/QC Date:: 6/27/2008

PROJECT LOCATION / PROCESS AREA

Project BFB-U - Located in Basin B

Item	Item Description	Quantity	Unit	Labor \$/Unit	Labor Amount	Materials \$/Unit	Materials Amount	Equip \$/Unit	Equip Amount	Total \$/Unit	Subs Amount	Other Amount	Grand Total
Project E													
02 - SIT	ECONSTRUCTION												
02060 -	Site demolition												
02000	Site demo, Area vegetation removal	1	Acre	\$1,758.00	\$2,004.12	\$0.00	\$0.00	\$3,692.00	\$4,208.88	\$5450 / Acre	\$0.00	\$0.00	\$6,213.00
				<b>\$</b> 1,100.00	<b>4</b> =,00=	******	<b>V</b> 0.00	<b>4</b> 0,000	<b>*</b> 1,=00100	***************************************	¥0.00	73.00	<b>V</b> 0,=
02330 -	Backfill, structural												
	Backfill, side slope fill	515	Cuyd	\$0.60	\$309.00	\$0.00	\$0.00	\$1.20	\$619.00	\$1.8 / Cuyd	\$0.00	\$0.00	\$928.00
02360 -	 Compaction												
	Compaction, riding, vibrating roller, 6" lifts, side slope fill	515	Cuyd	\$2.93	\$1,508.95	\$0.00	\$0.00	\$0.78	\$401.70	\$3.71 / Cuyd	\$0.00	\$0.00	\$1,910.65
02390 -	Excavating, bulk bank measure												
	Excavating, bulk bank measure, FE loader, whl mtd, 1.5 CY cap = 80	1864	Cuyd	\$1.95	\$3,634.80	\$0.00	\$0.00	\$1.42	\$2,646.88	\$3.37 / Cuyd	\$0.00	\$0.00	\$6,281.68
02430 -	Fill												
	Fill, spread fill, with dozer	515	Cuyd	\$0.72	\$370.80	\$0.00	\$0.00	\$1.15	\$592.25	\$1.87 / Cuyd	\$0.00	\$0.00	\$963.05
02460 -	Hauling												
	Hauling, LCY, no loading, 20 c.y. dump truck, 30 MI RT, 0.33 lds/hr	1348	Cuyd	\$5.95	\$8,020.60	\$0.00	\$0.00	\$10.40	\$14,019.20	\$16.35 / Cuyd	\$0.00	\$0.00	\$22,039.80
	Loading Trucks, F.E. Loader, 3 C.Y	1348	Cuyd	\$0.74	\$997.52	\$0.00	\$0.00	\$1.24	\$1,671.52	\$1.98 / Cuyd	\$0.00	\$0.00	\$2,669.04
02480 -	 Rip-rap												
	Rip-rap, gabions, galv steel mesh boxes, stone filled	100	Cuyd	\$49.95	\$4,995.00	\$60.56	\$6,056.00	\$16.44	\$1,644.00	\$126.95 / Cuyd	\$0.00	\$0.00	\$12,695.00
02490 -	Erosion control												
	Erosion control, polypropylene mesh, stapled, 6.5 oz./s.y	3299	Sqyd	\$0.47	\$1,550.53	\$1.40	\$4,618.60	\$0.00	\$0.00	\$1.87 / Sqyd	\$0.00	\$0.00	\$6,169.13
02600 -	Base course												
	Base course, roadway, compacted to 12" deep	667	Sqyd	\$0.87	\$580.29	\$10.76	\$7,176.92	\$1.11	\$740.37	\$12.74 / Sqyd	\$0.00	\$0.00	\$8,497.58
	SITE CONSTRUCTION Total				\$23,971.61		\$17,851.52		\$26,543.80		\$0.00	\$0.00	\$68,366.93
03 - COI	NCRETE				, 2,011101		, ,0002		. 5,6 :5:5		70.00		, - 2, - 2 - 2
	Project BFB-U-Total				\$23,971.61		\$17,851.52		\$26,543.80		\$0.00	\$0.00	\$68,366.93
	Grand Total				\$23,971.61		\$17,851.52		\$26,543.80		\$0.00	\$0.00	\$68,366.93

Category	Percent	Amount
Labor	35.06%	\$23,972
Material	26.11%	\$17,852
Equipment	38.83%	\$26,544
Subcontractor	0.00%	\$0
Other	0.00%	\$0
Net Costs		\$68,367
Labor Mark-up	18.00%	\$4,315
Material Mark-up	15.00%	\$2,678
Subcontractor Mark-up	5.00%	\$0
Equipment Mark-up	15.00%	\$3,982
Sales tax (material)	7.75%	\$1,383
Sales tax (equipment)	7.75%	\$2,057
Material Shipping & Handling	2.50%	\$446
Worker's Travel/Subsistence	0.10%	\$24
Subtotal		\$83,252
Contractor General Conditions	12.00%	\$9,990
Subtotal		\$93,242
Earthquake Insurance	0.10%	\$93
Subtotal		\$93,335
Construction Contingency	25.00%	\$23,334
Subtotal		\$116,669
Bldg Risk, Liability Auto Ins.	2.00%	\$2,333
Subtotal		\$119,003
Performance Bond	1.00%	\$1,190
Payment Bond	1.00%	\$1,190
Subtotal		\$121,383
Engineering Fee	10.00%	\$6,837
Environmental Permitting (Lump Sum)	-	\$10,000
Total Estimate		\$138,220



Project Number:: 128290

Client:: City of Carlsbad

Estimator(s):: SB / DG

Estimating Office:: Walnut Creek

Estimate Issue Number:: 01

Estimate Original Issue Date:: 5/12/2006

Estimate Revision Number:: 04

Estimate Revision Date:: 6/27/2008

BC Project Manager:: Chris Herencia
Estimate QA/QC Reviewer:: Bob Ferguson
Estimate QA/QC Date:: 6/27/2008

PROJECT LOCATION / PROCESS AREA

Project BFB-L - Located in Basin B

Item	Item Description	Quantity	Unit	Labor \$/Unit	Labor Amount	Materials \$/Unit	Materials Amount	Equip \$/Unit	Equip Amount	Total \$/Unit	Subs Amount	Other Amount	Grand Total
Project E	PFB-L												
01 - GEI	NERAL REQUIREMENTS												
01200 -	L General equipment rental												
01200	Trench box, 9500 lbs, 8'x 20'	12	Day	\$0.00	\$0.00	\$0.00	\$0.00	\$240.00	\$2,880.00	\$240 / Day	\$0.00	\$0.00	\$2,880.00
	,		Í		·								
	GENERAL REQUIREMENTS Total				\$0.00		\$0.00		\$2,880.00		\$0.00	\$0.00	\$2,880.00
00 O/T	- CONSTRUCTION												
02 - SIII	E CONSTRUCTION												
02020 -	L Underground marking tape												
02020	Underground tape, detectable aluminum, 2"	8	Clf	\$2.34	\$18.72	\$3.06	\$24.48	\$0.00	\$0.00	\$5.4 / Clf	\$0.00	\$0.00	\$43.20
				¥=	<b>V</b>	70.00	<b>*</b> = 11.10	44.44	74.00	75117 511	70.00	70.00	7.0.0
02320 -													
	Backfill, dozer backfilling, trench, up to 300' haul, no compaction	1017	Cuyd	\$0.80	\$813.60	\$0.00	\$0.00	\$1.28	\$1,301.76	\$2.08 / Cuyd	\$0.00	\$0.00	\$2,115.36
02340 -	Bedding	004	01	CO 47	<b>₾7</b> 570 40	<b>#00.00</b>	<b>#00.004.00</b>	<b>#4.00</b>	<b>#4.000.00</b>	\$40.00 / O	<b>#</b> 0.00	<b>#0.00</b>	<b>#07.000.00</b>
	Bedding, crushed stone 3/4" to 1/2"	894	Cuyd	\$8.47	\$7,572.18	\$32.03	\$28,634.82	\$1.89	\$1,689.66	\$42.39 / Cuyd	\$0.00	\$0.00	\$37,896.66
02360 -	L Compaction												
02000	Compaction, walk behind, vibrating roller 24" W, 6" lifts, 2 passes	104	Cuyd	\$1.90	\$197.60	\$0.00	\$0.00	\$0.51	\$53.04	\$2.41 / Cuyd	\$0.00	\$0.00	\$250.64
	Compaction, rammer tamper, 6" to 11", 4" lifts, bedding	769	Cuyd	\$2.93	\$2,253.17	\$0.00	\$0.00	\$0.78		\$3.71 / Cuyd		\$0.00	\$2,852.99
	Compaction, rammer tamper, 6" to 11", 4" lifts, backfill	916	Cuyd	\$2.93	\$2,683.88	\$0.00	\$0.00	\$0.78	\$714.48	\$3.71 / Cuyd	\$0.00	\$0.00	\$3,398.36
02450 -	Excavating, trench					***			*	4			
	Excavate trench, common earth curb, 6'-10' deep, 1-1/2 CY hyd	2056	Cuyd	\$1.76	\$3,618.56	\$0.00	\$0.00	\$1.28	\$2,631.68	\$3.04 / Cuyd	\$0.00	\$0.00	\$6,250.24
02460 -	Hauling												
02 100	Hauling, LCY, no loading, 20 c.y. dump truck, 30 MI RT, 0.33 lds/hr	1553	Cuyd	\$5.95	\$9,240.35	\$0.00	\$0.00	\$10.40	\$16,151.20	\$16.35 / Cuyd	\$0.00	\$0.00	\$25,391.55
	Loading Trucks, F.E. Loader, 3 C.Y	1553	Cuyd	\$0.74		\$0.00	\$0.00	\$1.24		\$1.98 / Cuyd	\$0.00	\$0.00	\$3,074.94
										,			
02490 -	Erosion control												
	Erosion control allowance:	1	Lsum	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$2614 / Lsum	\$0.00	\$2,614.00	\$2,614.00
02570	Catch basins or manholes												
02570 -	Junction structure	1	Each	\$680.00	\$680.00	\$6,000.00	\$6.000.00	\$0.00	\$0.00	\$6680 / Each	\$0.00	\$0.00	\$6.680.00
	Catch basins or manholes, concrete, precast, 5' I.D., 8' deep	3	Each	\$846.67	\$2,540.01	\$1,475.00	\$4,425.00	\$189.01		\$2510.68 / Each		\$0.00	\$7,532.04
	CB or manholes, conc, slab tops, precast, 8" thick, 5' dia	3	Each	\$169.33	\$507.99	\$395.00	\$1,185.00	\$37.80			\$0.00	\$0.00	\$1,806.39
	Catch bsns or manholes, frs and covs, hvy traffic, 24" diam, 400 lb.	3	Each	\$162.82	\$488.46	\$260.00	\$780.00	\$36.35	\$109.05	\$459.17 / Each	\$0.00	\$0.00	\$1,377.51
	CB or manholes, inverts, single channel brick, concrete	3	Each	\$144.00	\$432.00	\$100.00	\$300.00	\$0.00			\$0.00	\$0.00	\$732.00
	CB/manholes, steps, heavyweight cast iron, 12" x 10-1/2", for all con	13	Each	\$9.66	\$125.58	\$23.00	\$299.00	\$0.00	\$0.00	\$32.66 / Each	\$0.00	\$0.00	\$424.58
02500	 Headwall												
02580 -	Headwall Headwall, conc, CIP, 30< skewed wingwall	4	Each	\$6,762.00	\$6,762.00	\$2,173.00	\$2,173.00	\$158.00	\$158.00	\$9093 / Each	\$0.00	\$0.00	\$9,093.00
1	i loadwaii, collo, oif , soc shewed willywaii	'	Each	φυ, ι υΖ.υυ	φ0,702.00	φ∠, 17 3.00	φ2,173.00	φ100.00	\$100.00	ψa∪ao / ⊏dCH	φυ.υυ	φυ.υ0	φϑ,υϑ૩.00
02900 -	Pot Holing												
	Pot Holing - pipe lines	16	Each	\$250.00	\$4,000.00	\$0.00	\$0.00	\$35.00	\$560.00	\$285 / Each	\$0.00	\$0.00	\$4,560.00
				_									-
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Item	Item Description	Quantity	Unit	Labor \$/Unit	Labor Amount	Materials \$/Unit	Materials Amount	Equip \$/Unit	Equip Amount	Total \$/Unit	Subs Amount	Other Amount	Grand Total
15 - ME	CHANICAL												
15090 -	Pipe,drng&sewage,concret												
	Piping, drainage & sewage, RCP, class 3, no gaskets, 48" dia	800	Lnft	\$44.66	\$35,728.00	\$120.00	\$96,000.00	\$4.43	\$3,544.00	\$169.09 / Lnft	\$0.00	\$0.00	\$135,272.00
	Piping, water dist, conc pipe, gasket, 48" dia	80	Each	\$3.14	\$251.20	\$10.00	\$800.00	\$0.00	\$0.00	\$13.14 / Each	\$0.00	\$0.00	\$1,051.20
	MECHANICAL Total	a/			\$79,062.52		\$140,621.30		\$30,118.84		\$0.00	\$2,614.00	\$252,416.66
	Project BFB-L Total				\$79,062.52		\$140.621.30		\$32,998.84		\$0.00	\$2.614.00	\$255,296.66
	Project bit bit Total				φ19,002.32		φ140,021.30		φ32,996.64		\$0.00	φ2,014.00	φ233,290.00
	Grand Total				\$79,062.52		\$140,621.30		\$32,998.84		\$0.00	\$2,614.00	\$255,296.66

Category	Percent	Amount
Labor	30.97%	\$79,063
Material	55.08%	\$140,621
Equipment	12.93%	\$32,999
Subcontractor	0.00%	\$0
Other	1.02%	\$2,614
Net Costs		\$255,297
Labor Mark-up	18.00%	\$14,231
Material Mark-up	15.00%	\$21,093
Subcontractor Mark-up	5.00%	\$0
Equipment Mark-up	15.00%	\$4,950
Sales tax (material)	7.75%	\$10,898
Sales tax (equipment)	7.75%	\$2,557
Material Shipping & Handling	2.50%	\$3,516
Worker's Travel/Subsistence	0.10%	\$79
Subtotal		\$312,621
Contractor General Conditions	12.00%	\$37,515
Subtotal		\$350,136
Earthquake Insurance	0.10%	\$350
Subtotal		\$350,486
Construction Contingency	25.00%	\$87,621
Subtotal		\$438,107
Bldg Risk, Liability Auto Ins.	2.00%	\$8,762
Subtotal		\$446,869
Performance Bond	1.00%	\$4,469
Payment Bond	1.00%	\$4,469
Subtotal		\$455,807
Engineering Fee	10.00%	\$25,530
Environmental Permitting (Lump Sum)	-	\$10,000
Total Estimate		\$491,336



Project Number:: 128290

Client:: City of Carlsbad

Estimator(s):: JW / DG

Estimating Office:: Walnut Creek

Estimate Issue Number:: 01

Estimate Original Issue Date:: 3/14/2006

Estimate Revision Number:: 04

Estimate Revision Date:: 6/27/2008

BC Project Manager:: Chris Herencia
Estimate QA/QC Reviewer:: Butch Matthews

Estimate QA/QC Date:: 6/27/2008

PROJECT LOCATION / PROCESS AREA

Project BF1 - Located in Basin B

Item	Item Description Quantit	Unit	Labor \$/Unit	Labor Amount	Materials \$/Unit	Materials Amount	Equip \$/Unit	Equip Amount	Total \$/Unit	Subs Amount	Other Amount	Grand Total
Project I	BF1											
02 517	E CONSTRUCTION											
02 - 311	ECONSTRUCTION											
02320 -	Backfill											
		1 Cuyd	\$0.80	\$9.12	\$0.00	\$0.00	\$1.28	\$14.59	\$2.08 / Cuyd	\$0.00	\$0.00	\$23.71
	Backfill, dozer backfilling, trench, no compaction, outlet	0 Cuyd	\$0.80	\$8.32	\$0.00	\$0.00	\$1.28	\$13.31	\$2.08 / Cuyd	\$0.00	\$0.00	\$21.63
02340 -	Bedding	0 01	<b>CO 47</b>	ф <b>7</b> г оо	<b>#00.00</b>	<b>\$005.03</b>	<b>#4.00</b>	<b>\$40.00</b>	\$40.00 / Od	<b>#</b> 0.00	<b>#0.00</b>	<b>\$077.07</b>
	Bedding, crushed stone 3/4" to 1/2", inlet Bedding, crushed stone 3/4" to 1/2", outlet	<ul> <li>9 Cuyd</li> <li>7 Cuyd</li> </ul>	\$8.47 \$8.47	\$75.38 \$58.44	\$32.03 \$32.03	\$285.07 \$221.01	\$1.89 \$1.89	\$16.82 \$13.04	\$42.39 / Cuyd \$42.39 / Cuyd		\$0.00 \$0.00	\$377.27 \$292.49
	beduing, crushed stone 3/4 to 1/2 , oddet	7 Cuyu	φ0.47	φ30.44	φ32.03	Ψ221.01	ψ1.05	\$13.04	φ42.39 / Cuyu	\$0.00	φ0.00	Ψ292.49
02360 -	Compaction											
	Compaction, trench, walk behind, vib. plate, bedding, inlet	8 Cuyd	\$1.90	\$14.63	\$0.00	\$0.00	\$0.51	\$3.93	\$2.41 / Cuyd	\$0.00	\$0.00	\$18.56
	Compaction, trench, walk behind, vib. plate, subgrade, inlet	1 Cuyd	\$1.90	\$1.90	\$0.00	\$0.00	\$0.51	\$0.51	\$2.41 / Cuyd		\$0.00	\$2.41
	Compaction, trench, walk behind, vib. plate, bedding, outlet	6 Cuyd	\$1.90		\$0.00	\$0.00	\$0.51	\$3.01	\$2.41 / Cuyd		\$0.00	\$14.22
	Compaction, trench, walk behind, vib. plate, subgrade, outlet	1 Cuyd	\$1.90		\$0.00	\$0.00	\$0.51	\$0.46	\$2.41 / Cuyd		\$0.00	\$2.17
		0 Cuyd	\$1.90	\$19.38	\$0.00	\$0.00	\$0.51	\$5.20	\$2.41 / Cuyd		\$0.00	\$24.58
	Compaction, trench, walk behind, vib. plate, outlet	9 Cuyd	\$1.90	\$17.67	\$0.00	\$0.00	\$0.51	\$4.74	\$2.41 / Cuyd	\$0.00	\$0.00	\$22.41
02410 -	Excavation,bulk,scrapers											
02110	Excavation, self prop scraper, 14 CY 1/4 push dozer, com earth 3150	0 Cuyd	\$1.29	\$40,635.00	\$0.00	\$0.00	\$5.19	\$163,485.00	\$6.48 / Cuyd	\$0.00	\$0.00	\$204,120.00
							·					
02450 -	Excavating, trench											
	Excavate trench, no sht or dewtrg, 4'-6' D, 1-1/2 CY hyd bac, inlet	2 Cuyd	\$1.95		\$0.00	\$0.00	\$1.42	\$30.67	\$3.37 / Cuyd		\$0.00	\$72.79
	Excavate trench, no sht or dewtrg, 4'-6' D, 1-1/2 CY hyd bac, outlet	7 Cuyd	\$1.95	\$33.74	\$0.00	\$0.00	\$1.42	\$24.57	\$3.37 / Cuyd	\$0.00	\$0.00	\$58.30
02480 -	Rip-rap											
02400 -		4 Cuyd	\$49.95	\$4,675.32	\$60.56	\$5.668.42	\$16.44	\$1,538.78	\$126.95 / Cuyd	\$0.00	\$0.00	\$11,882.52
	Trip rap, gasiono, gaiv steer mesh soxes, stone mied	- Ouyu	Ψ+0.00	ψ4,070.02	ψου.υυ	ψ0,000.42	ψ10.11	ψ1,000.10	ψ120.007 Odyd	Ψ0.00	ψ0.00	Ψ11,002.02
	SITE CONSTRUCTION Total			\$45,603.94		\$6,174.49		\$165,154.64		\$0.00	\$0.00	\$216,933.07
03 - CO	NCRETE											
03150 -	Concrete, ready mix	0 01	<b>60.00</b>	<b>#0.00</b>	<b>#0.00</b>	<b>\$0.00</b>	<b>#0.00</b>	<b>#</b> 0.00	\$4000 / Od	<b>#</b> 0.00	<b>CO 400 00</b>	<b>#0.400.00</b>
	Headwall, inlet Headwall, outlet	<ul><li>2 Cuyd</li><li>1 Cuyd</li></ul>	\$0.00 \$0.00	\$0.00 \$0.00	\$0.00 \$0.00	\$0.00 \$0.00	\$0.00 \$0.00	\$0.00 \$0.00	\$1000 / Cuyd \$1000 / Cuyd			\$2,480.00 \$1,330.00
	i readwaii, oddet	Cuyu	φυ.υυ	φυ.υυ	φ0.00	φυ.υυ	φυ.υυ	φυ.υυ	\$10007 Cuyu	\$0.00	\$1,330.00	\$1,330.00
	CONCRETE Total			\$0.00		\$0.00		\$0.00		\$0.00	\$3,810.00	\$3,810.00
15 - ME	CHANICAL											
15090 -	Pipe,drng&sewage,concret		A00 ==	<b>004</b> =	070.55	050/	00.7	00:	<b>0440047</b>	0	00.77	0005 : 5
	Piping, drainage & sewage, RCP, class 3, no gaskets, 36" dia	8 Lnft 8 Lnft	\$39.70	\$317.60	\$73.00 \$120.00	\$584.00	\$3.94	\$31.52	\$116.64 / Lnft			\$933.12
	Piping, drainage & sewage, RCP, class 3, no gaskets, 48" dia	o LNπ	\$44.66	\$357.28	\$1∠U.UU	\$960.00	\$4.43	\$35.44	\$169.09 / Lnft	\$0.00	\$0.00	\$1,352.72
15125 -	Pipe,strm drng,corr metal											
	1 , 0,	4 Lnft	\$14.00	\$336.00	\$17.62	\$422.88	\$1.62	\$38.88	\$33.24 / Lnft	\$0.00	\$0.00	\$797.76
				,		, ,,	, ,-	,		,		
	MECHANICAL Total			\$1,010.88		\$1,966.88		\$105.84		\$0.00	\$0.00	\$3,083.60
<u> </u>	Project BF1 Total			\$46,614.82		\$8,141.37		\$165,260.48		\$0.00	\$3,810.00	\$223,826.67
-	Grand Total			\$46,614.82		\$8,141.37		\$165,260.48		\$0.00	\$3.810.00	\$223,826.67
	Granu rotai			\$40,014.8Z		\$6,141.37		\$100,∠00.48		\$0.00	\$3,010.00	\$223,020.07

Category	Percent	Amount
Labor	20.83%	\$46,615
Material	3.64%	\$8,141
Equipment	73.83%	\$165,260
Subcontractor	0.00%	\$0
Other	1.70%	\$3,810
Net Costs		\$223,827
Labor Mark-up	18.00%	\$8,391
Material Mark-up	15.00%	\$1,221
Subcontractor Mark-up	5.00%	\$0
Equipment Mark-up	15.00%	\$24,789
Sales tax (material)	7.75%	\$631
Sales tax (equipment)	7.75%	\$12,808
Material Shipping & Handling	2.50%	\$204
Worker's Travel/Subsistence	0.10%	\$47
Subtotal		\$271,916
Contractor General Conditions	12.00%	\$32,630
Subtotal		\$304,546
Earthquake Insurance	0.10%	\$305
Subtotal		\$304,851
Construction Contingency	20.00%	\$60,970
Subtotal		\$365,821
Bldg Risk, Liability Auto Ins.	2.00%	\$7,316
Subtotal		\$373,138
Performance Bond	1.00%	\$3,731
Payment Bond	1.00%	\$3,731
Subtotal		\$380,600
Engineering Fee	10.00%	\$22,383
Environmental Permitting (Lump Sum)	-	\$10,000
Total Estimate		\$412,983



Project Number:: 128290

Client:: City of Carlsbad

Estimator(s):: SB / DG

Estimating Office:: Walnut Creek

Estimate Issue Number:: 01

Estimate Original Issue Date:: 5/12/2006

Estimate Revision Number:: 04

Estimate Revision Date:: 6/27/2008

BC Project Manager:: Chris Herencia
Estimate QA/QC Reviewer:: Bob Ferguson

Estimate QA/QC Date:: 6/27/2008

PROJECT LOCATION / PROCESS AREA

Project BJ-1 - Located in Basin B

Item	Item Description	Quantity	Unit	Labor \$/Unit	Labor Amount	Materials \$/Unit	Materials Amount	Equip \$/Unit	Equip Amount	Total \$/Unit	Subs Amount	Other Amount	Grand Total
Project I													
02 - SIT	E CONSTRUCTION												
02210 -	Clear and grub												
022 10 -	Clear & grub, brush, including stumps	6	Acre	\$1,759.00	\$10,554.00	\$0.00	\$0.00	\$3,686.00	\$22.116.00	\$5445 / Acre	\$0.00	\$0.00	\$32.670.00
	ordar a grab, brasil, including stamps	J	71010	ψ1,700.00	Ψ10,004.00	ψ0.00	ψ0.00	ψ0,000.00	ΨΣΣ,110.00	φοτιογγιοιο	Ψ0.00	ψ0.00	ψοΣ,010.00
02310 -	Fine grade												
	Grade pad, contour area	23334	Sqyd	\$0.55	\$12,833.70	\$0.00	\$0.00	\$0.44	\$10,266.96	\$0.99 / Sqyd	\$0.00		\$23,100.66
	Grade slopes	6556	Sqyd	\$0.55	\$3,605.80	\$0.00	\$0.00	\$0.44	\$2,884.64	\$0.99 / Sqyd	\$0.00	\$0.00	\$6,490.44
00000	Backfill												
02320 -	Backfill, dozer backfilling, trench, no compaction	7300	Cuvd	\$0.80	\$5,840.00	\$0.00	\$0.00	\$1.28	\$9,344.00	\$2.08 / Cuyd	\$0.00	\$0.00	\$15,184.00
	Backilli, dozer backilliling, trench, no compaction	7300	Cuyu	ψ0.00	\$3,040.00	\$0.00	φυ.υυ	ψ1.20	φ9,544.00	\$2.00 / Cuyu	\$0.00	\$0.00	\$15,164.00
02360 -	Compaction												
	Compaction, trench, walk behind, vib Plate	7300	Cuyd	\$1.90	\$13,870.00	\$0.00	\$0.00	\$0.51	\$3,723.00	\$2.41 / Cuyd	\$0.00	\$0.00	\$17,593.00
02400 -	Excavating bulk, dozer,							****					
	Hauling, LCY, no loading, 50" haul	31450	Cuyd	\$0.58	\$18,241.00	\$0.00	\$0.00	\$0.95	\$29,877.50	\$1.53 / Cuyd	\$0.00	\$0.00	\$48,118.50
02410 -	Excavation, bulk, scrapers												
02410 -	Excavation, self prop scraper, 14 CY 1/4 push dozer, com earth	7300	Cuyd	\$1.29	\$9,417.00	\$0.00	\$0.00	\$5.19	\$37,887.00	\$6.48 / Cuyd	\$0.00	\$0.00	\$47,304.00
	Executation, con prop corapor, 11 of 17 paor aceor, com carm		Cuju	ψ·20	ψο,	ψ0.00	ψ0.00	ψ0.10	φοι,σοι.σσ	ψ0.107 σαγα	ψ0.00	ψ0.00	ψ11,001.00
02480 -	Rip-rap												
	Rip-rap, energy dissipater	120	Sqyd	\$55.00	\$6,600.00	\$25.00	\$3,000.00	\$18.70	\$2,244.00	\$98.7 / Sqyd	\$0.00	\$0.00	\$11,844.00
02490 -	Erosion Control	0550	01	<b>CO 40</b>	<b>©0.440.00</b>	<b>#0.75</b>	£4.047.00	<b>CO 40</b>	<b>₽</b> 700.70	C4 O5 / O	<b>#0.00</b>	<b>#</b> 0.00	<b>₽0.050.00</b>
	Erosion control, jute mesh, 100 SY per roll, 4' wide Erosion control, silt fence, polypropylene, 3' high	6556 1800	Sqyd Inft	\$0.48 \$0.80	\$3,146.88 \$1,440.00	\$0.75 \$0.34	\$4,917.00 \$612.00	\$0.12 \$0.00	\$786.72 \$0.00	\$1.35 / Sqyd \$1.14 / Inft	\$0.00 \$0.00		\$8,850.60 \$2,052.00
	Erosion control, silt fence, polypropylene, 3 high Erosion control, silt fence, polypropylene, 3' high, remove	1800	Inft	\$0.80	\$1,440.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.8 / Inft	\$0.00		\$2,032.00
	Erosion control, hay bales, staked	2200	Inft	\$1.19	\$2,618.00	\$2.25	\$4,950.00	\$0.10		\$3.54 / Inft	\$0.00		\$7,788.00
				•		•	, ,	*			•		, , , , , , , , , , , , , , , , , , , ,
02840 -	Landscaping												
	Slope Landscaping/irrigation	59000	Sqft	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$29500 / Sqft	\$29,500.00	\$0.00	\$29,500.00
	OUTE OCCUPATION TO A				<b>#</b> 00 000 00		#40 470 00		0.440.040.00		000 500 00	00.00	<b>#054.005.00</b>
02 - CO	SITE CONSTRUCTION Total NCRETE				\$89,606.38		\$13,479.00		\$119,349.82		\$29,500.00	\$0.00	\$251,935.20
03 - 00	NONETE												
03150 -	Concrete, ready mix												
	Headwall	3	Cuyd	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$1000 / Cuyd	\$0.00	\$3,000.00	\$3,000.00
	Headwall	3	Cuyd	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$1000 / Cuyd	\$0.00		\$3,000.00
	3'x6' RCB Culvert	16	Cuyd	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$1000 / Cuyd	\$0.00	\$16,000.00	\$16,000.00
	COMPORTET				<b>#</b> C 22		00.00		00.00		<b>#</b> 0.00	#00.000.00	#00 000 00
11 - FO	CONCRETE Total UIPMENT				\$0.00		\$0.00		\$0.00		\$0.00	\$22,000.00	\$22,000.00
	Process Equipment												
	Water unit	1628	Gal	\$0.70	\$1,139.60	\$1.05	\$1,709.40	\$0.00	\$0.00	\$1.75 / Gal	\$0.00	\$0.00	\$2,849.00
					. ,		, , , , , , , , , , , ,	,				7.100	, ,, ,,,
	EQUIPMENT Total				\$1,139.60		\$1,709.40		\$0.00		\$0.00	\$0.00	\$2,849.00
	Project BJ-1 Total				\$90,745.98		\$15,188.40		\$119,349.82		\$29,500.00	\$22,000.00	\$276,784.20
	Crand Total				\$00.74F.00		¢45 400 40		\$110.240.00		\$20 E00 00	\$22,000.00	\$276 704 20
	Grand Total				\$90,745.98		\$15,188.40		\$119,349.82		\$29,500.00	\$22,000.00	\$276,784.20

Category	Percent	Amount
Labor	32.79%	\$90,746
Material	5.49%	\$15,188
Equipment	43.12%	\$119,350
Subcontractor	10.66%	\$29,500
Other	7.95%	\$22,000
Net Costs		\$276,784
Labor Mark-up	18.00%	\$16,334
Material Mark-up	15.00%	\$2,278
Subcontractor Mark-up	5.00%	\$1,475
Equipment Mark-up	15.00%	\$17,902
Sales tax (material)	7.75%	\$1,177
Sales tax (equipment)	7.75%	\$9,250
Material Shipping & Handling	2.50%	\$380
Worker's Travel/Subsistence	0.10%	\$91
Subtotal		\$325,671
Contractor General Conditions	12.00%	\$39,081
Subtotal		\$364,752
Earthquake Insurance	0.10%	\$365
Subtotal		\$365,117
Construction Contingency	20.00%	\$73,023
Subtotal		\$438,140
Bldg Risk, Liability Auto Ins.	2.00%	\$8,763
Subtotal		\$446,903
Performance Bond	1.00%	\$4,469
Payment Bond	1.00%	\$4,469
Subtotal		\$455,841
Engineering Fee	10.00%	\$27,678
Environmental Permitting (Lump Sum)	-	\$17,000
Total Estimate		\$500,519



Project Number:: 128290

Client:: City of Carlsbad

Estimator(s):: JW / DG

Estimating Office:: Walnut Creek

Estimate Issue Number:: 01

Estimate Original Issue Date:: 3/14/2006

Estimate Revision Number:: 04

Estimate Revision Date:: 6/27/2008

BC Project Manager:: Chris Herencia
Estimate QA/QC Reviewer:: Butch Matthews

Estimate QA/QC Date:: 6/27/2008

PROJECT LOCATION / PROCESS AREA

Project BJB - Located in Basin B

Item	Item Description	Quantity	Unit	Labor \$/Unit	Labor Amount	Materials \$/Unit	Materials Amount	Equip \$/Unit	Equip Amount	Total \$/Unit	Subs Amount	Other Amount	Grand Total
Project E	ЗЈВ												
02 - SITI	E CONSTRUCTION												
02340 - 1	Bedding												
	Backing Material class #1	150	Cuyd	\$17.00	\$2,550.00	\$60.00	\$9,000.00	\$20.00	\$3,000.00	\$97 / Cuyd	\$0.00	\$0.00	\$14,550.00
02360 -	Compaction									******			
	Compaction, trench, walk behind, vib Plate	80	Cuyd	\$1.90	\$152.00	\$0.00	\$0.00	\$0.51	\$40.80	\$2.41 / Cuyd	\$0.00	\$0.00	\$192.80
02450 -	Excavating												
	Excavating, bulk bank measure, FE loader, whl mtd, 1.5 CY cap = 80	440	Cuyd	\$1.95	\$858.00	\$0.00	\$0.00	\$1.42	\$624.80	\$3.37 / Cuyd	\$0.00	\$0.00	\$1,482.80
02460 - 1	Hauling												
	Disposal fee	25	Trk	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$105 / Trk	\$0.00	\$2,625.00	\$2,625.00
	Hauling, LCY, no loading, 12 c.y. dump truck, 20 MI RT, 0.4 lds/hr	440	Cuyd	\$7.18	\$3,159.20	\$3.00	\$1,320.00	\$15.45	\$6,796.43	\$25.63 / Cuyd	\$0.00	\$0.00	\$11,275.63
	Loading Trucks, F.E. Loader, 3 C.Y, clear & grub	440	Cuyd	\$0.74	\$325.60	\$0.00	\$0.00	\$1.24	\$545.60	\$1.98 / Cuyd	\$0.00	\$0.00	\$871.20
02470	Soil stabilization												
	Soil stabilization, geotextile fabric, woven, H.D., 600 lb. tensile st	525	Sqyd	\$0.32	\$168.00	\$1.85	\$971.25	\$0.00	\$0.00	\$2.17 / Sqyd	\$0.00	\$0.00	\$1,139.25
02480 -	Rip-rap												
	Rip-rap, gabions, galv steel mesh boxes, stone filled, 36" deep	290	Cuyd	\$49.95	\$14,485.50	\$60.56	\$17,562.40	\$16.44	\$4,767.60	\$126.95 / Cuyd	\$0.00	\$0.00	\$36,815.50
	SITE CONSTRUCTION Total				\$21,698.30		\$28.853.65		\$15,775.23		\$0.00	\$2,625.00	\$68,952.18
03 - COI	NCRETE				φ2 1,096.30		φ20,003.00		φ10,770.23		\$0.00	\$2,023.00	φ00,932.16
03150 -	Concrete, ready mix												
	Wing wall for 7'X11' box culvert	9	Cuyd	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$1000 / Cuyd	\$0.00	\$9,000.00	\$9,000.00
	CONCRETE Total				\$0.00		\$0.00		\$0.00		\$0.00	\$9,000.00	\$9,000.00
	Project BJB Total				\$21,698.30		\$28,853.65		\$15,775.23		\$0.00	\$11,625.00	\$77,952.18
	Grand Total				\$21,698.30		\$28.853.65		\$15,775.23		\$0.00	\$11.625.00	\$77,952.18

Category	Percent	Amount
Labor	27.84%	\$21,698
Material	37.01%	\$28,854
Equipment	20.24%	\$15,775
Subcontractor	0.00%	\$0
Other	14.91%	\$11,625
Net Costs		\$77,952
Labor Mark-up	18.00%	\$3,906
Material Mark-up	15.00%	\$4,328
Subcontractor Mark-up	5.00%	\$0
Equipment Mark-up	15.00%	\$2,366
Sales tax (material)	7.75%	\$2,236
Sales tax (equipment)	7.75%	\$1,223
Material Shipping & Handling	2.50%	\$721
Worker's Travel/Subsistence	0.10%	\$22
Subtotal		\$92,754
Contractor General Conditions	12.00%	\$11,130
Subtotal		\$103,884
Earthquake Insurance	0.10%	\$104
Subtotal		\$103,988
Construction Contingency	25.00%	\$25,997
Subtotal		\$129,985
Bldg Risk, Liability Auto Ins.	2.00%	\$2,600
Subtotal		\$132,585
Performance Bond	1.00%	\$1,326
Payment Bond	1.00%	\$1,326
Subtotal		\$135,237
Engineering Fee	10.00%	\$7,795
Environmental Permitting (Lump Sum)	-	\$10,000
Total Estimate		\$153,032



Project Number:: 128290

Client:: City of Carlsbad

Estimator(s):: SB / DG

Estimating Office:: Walnut Creek

Estimate Issue Number:: 01

Estimate Original Issue Date:: 5/11/2006

Estimate Revision Number:: 04

Estimate Revision Date:: 6/27/2008

BC Project Manager:: Chris Herencia
Estimate QA/QC Reviewer:: Bob Ferguson

Estimate QA/QC Date:: 6/27/2008

PROJECT LOCATION / PROCESS AREA

Project BL-U - Located in Basin B

Item	Item Description	Quantity	Unit	Labor \$/Unit	Labor Amount	Materials \$/Unit	Materials Amount	Equip \$/Unit	Equip Amount	Total \$/Unit	Subs Amount	Other Amount	Grand Total
Project B	L-U IERAL REQUIREMENTS												
UT - GLI	IENAL NEQUINEMENTS												
01200 - (	General equipment rental												
	Trench box, 9500 lbs, 8'x 20'	10	Day	\$0.00	\$0.00	\$0.00	\$0.00	\$240.00		\$240 / Day			\$2,400.00
	Trench Plates allowance  GENERAL REQUIREMENTS Total	1	Мо	\$0.00	\$0.00 \$0.00	\$0.00	\$0.00 \$0.00	\$900.00	\$900.00 \$3,300.00	\$900 / Mo	\$0.00 \$0.00	\$0.00 \$0.00	\$900.00 \$3,300.00
					-				. ,			-	. ,
02 - SITE	CONSTRUCTION												
02020 - (	Inderground marking tape												
	Underground tape, detectable aluminum, 2"	8	Clf	\$2.34	\$18.72	\$3.06	\$24.48	\$0.00	\$0.00	\$5.4 / Clf	\$0.00	\$0.00	\$43.20
02320 - 1	Backfill												
	Backfill, dozer backfilling, trench, up to 300' haul, no compaction	943	Cuyd	\$0.80	\$754.40	\$0.00	\$0.00	\$1.28	\$1,207.04	\$2.08 / Cuyd	\$0.00	\$0.00	\$1,961.44
02340 - 1	Bedding												
	Bedding, crushed stone 3/4" to 1/2"	737	Cuyd	\$8.47	\$6,242.39	\$32.03	\$23,606.11	\$1.89	\$1,392.93	\$42.39 / Cuyd	\$0.00	\$0.00	\$31,241.43
02260	Composión												
	Compaction Compaction, walk behind, vibrating roller 24" W, 6" lifts, 2 passes	93	Cuyd	\$1.90	\$176.70	\$0.00	\$0.00	\$0.51	\$47.43	\$2.41 / Cuyd	\$0.00	\$0.00	\$224.13
	Compaction, rammer tamper, 6" to 11", 4" lifts, bedding	634	Cuyd	\$2.93	\$1,857.62	\$0.00	\$0.00	\$0.78					\$2,352.14
	Compaction, rammer tamper, 6" to 11", 4" lifts, backfill	849	Cuyd	\$2.93	\$2,487.57	\$0.00	\$0.00	\$0.78	\$662.22	\$3.71 / Cuyd	\$0.00	\$0.00	\$3,149.79
02450 - 1	Excavating, trench												
	Excavate trench, common earth curb, 6'-10' deep, 1-1/2 CY hyd	1729	Cuyd	\$1.76	\$3,043.04	\$0.00	\$0.00	\$1.28	\$2,213.12	\$3.04 / Cuyd	\$0.00	\$0.00	\$5,256.16
00.400	lauling												
02460 - 1	Hauling, LCY, no loading, 20 c.y. dump truck, 30 MI RT, 0.33 lds/hr	1218	Cuyd	\$5.95	\$7,247.10	\$0.00	\$0.00	\$10.40	\$12,667.20	\$16.35 / Cuyd	\$0.00	\$0.00	\$19,914.30
	Loading Trucks, F.E. Loader, 3 C.Y	1218	Cuyd	\$0.74	\$901.32	\$0.00	\$0.00	\$1.24					\$2,411.64
02.400	- maior control												
02490 - 1	Erosion control Erosion control allowance:	1	Lsum	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$2614 / Lsum	\$0.00	\$2,614.00	\$2,614.00
			200	ψ0.00	ψ0.00	ψ0.00	ψο.σσ	ψ0.00	ψ0.00	ψ20117 20um	\$0.00	\$2,011.00	ψ2,011100
02570 - (	Catch basins or manholes												
	Junction structure CB or manholes, conc, precast, 4' ID, 6' deep	2	Each Each	\$680.00 \$549.75	\$1,360.00 \$2,199.00	\$6,000.00 \$1,050.00	\$12,000.00 \$4,200.00	\$0.00 \$148.32		\$6680 / Each \$1748.07 / Each			\$13,360.00 \$6,992.28
	CB or manholes, conc, slab tops, precast, 8" thick, 4' dia	4	Each	\$158.75	\$635.00	\$1,050.00	\$4,200.00	\$148.32					\$6,992.28 \$1,580.76
	Catch bsns or manholes, frs and covs, hvy traffic, 24" diam, 400 lb.	4	Each	\$162.82	\$651.28	\$260.00	\$1,040.00	\$36.35					\$1,836.68
	CB or manholes, inverts, single channel brick, concrete	4	Each	\$144.00	\$576.00	\$100.00	\$400.00	\$0.00		\$244 / Each	\$0.00		\$976.00
	Catch basins or manholes, steps, standard sizes, aluminum	12	Each	\$9.66	\$115.92	\$26.50	\$318.00	\$0.00					\$433.92
	Cleanout	1	Each	\$1,019.00	\$1,019.00	\$1,560.00	\$1,560.00	\$249.00	\$249.00	\$2828 / Each	\$0.00	\$0.00	\$2,828.00
	SITE CONSTRUCTION Total				\$29,285.06		\$43,952.59		\$21,324.22		\$0.00	\$2,614.00	\$97,175.87
15 - MEC	CHANICAL												
15090 - 1	Pipe,drng&sewage,concret												
	Piping, drainage & sewage, RCP, class 3, no gaskets, 39" dia	800	Lnft	\$39.70	\$31,760.00	\$78.00	\$62,400.00	\$3.94	4 - 7			\$0.00	\$97,312.00
	Piping, water dist, conc pipe, gasket, 39" dia	80	Each	\$3.14	\$251.20	\$9.20	\$736.00	\$0.00	\$0.00	\$12.34 / Each	\$0.00	\$0.00	\$987.20
	MECHANICAL Total				\$32,011.20		\$63,136.00		\$3,152.00		\$0.00	\$0.00	\$98,299.20
	B : (B) UT-(1				#04.000.00		<b>6407.000.50</b>		Ф07.770.00		<b>#</b> 0.00	<b>***</b>	\$400 775 OT
	Project BL-U Total				\$61,296.26		\$107,088.59		\$27,776.22		\$0.00	\$2,614.00	\$198,775.07
	Grand Total				\$61,296.26		\$107,088.59		\$27,776.22		\$0.00	\$2,614.00	\$198,775.07

Category	Percent	Amount
Labor	5.20%	\$61,296
Material	9.09%	\$107,089
Equipment	2.36%	\$27,776
Subcontractor	0.00%	\$0
Other	0.22%	\$2,614
Net Costs		\$198,775
Labor Mark-up	18.00%	\$11,033
Material Mark-up	15.00%	\$16,063
Subcontractor Mark-up	5.00%	\$0
Equipment Mark-up	15.00%	\$4,166
Sales tax (material)	7.75%	\$8,299
Sales tax (equipment)	7.75%	\$2,153
Material Shipping & Handling	2.50%	\$2,677
Worker's Travel/Subsistence	0.10%	\$61
Subtotal		\$243,229
Contractor General Conditions	12.00%	\$29,187
Subtotal		\$272,416
Earthquake Insurance	0.10%	\$272
Subtotal		\$272,689
Construction Contingency	25.00%	\$68,172
Subtotal		\$340,861
Bldg Risk, Liability Auto Ins.	2.00%	\$6,817
Subtotal		\$347,678
Performance Bond	1.00%	\$3,477
Payment Bond	1.00%	\$3,477
Subtotal		\$354,631
Engineering Fee	10.00%	\$19,878
Environmental Permitting (Lump Sum)	-	\$10,000
Total Estimate		\$384,509



Project Number:: 128290

Client:: City of Carlsbad

Estimator(s):: SB / DG

Estimating Office:: Walnut Creek

Estimate Issue Number:: 01

Estimate Original Issue Date:: 5/12/2006

Estimate Revision Number:: 04

Estimate Revision Date:: 6/27/2008

BC Project Manager:: Chris Herencia Estimate QA/QC Reviewer:: Bob Ferguson

Estimate QA/QC Date:: 6/27/2008

PROJECT LOCATION / PROCESS AREA

Project BL-L - Located in Basin B

ltem	Item Description Quant	ty Unit	Labor \$/Unit	Labor Amount	Materials \$/Unit	Materials Amount	Equip \$/Unit	Equip Amount	Total \$/Unit	Subs Amount	Other Amount	Grand Total
Project I												
01 - GE	NERAL REQUIREMENTS											
04000	Occupation and annual											
01200 -	General equipment rental	1 De	¢o oc	\$0.00	\$0.00	\$0.00	\$240.00	\$240.00	\$240 / Day	\$0.00	\$0.00	\$240.00
	Trench box, 9500 lbs, 8'x 20' Trench Plates allowance	1 Da			\$0.00	\$0.00	\$240.00	\$240.00	\$240 / Day \$900 / Mo			\$240.00
	GENERAL REQUIREMENTS Total	I IV	0 \$0.00	\$0.00	φ0.00	\$0.00	ψ900.00	\$1,140.00	φ9007 ΝΙΟ	\$0.00	\$0.00	\$1,140.00
	OENEROLE NE QUINEMENTO TOM			φο.οο		φ0.00		\$1,140.00		ψ0.00	φο.σο	ψ1,140.00
02 SITE	CONSTRUCTION											
02060 -	Site demolition											
	Site dml, no hauling, pavement removal, bit, 4" to 6" thick	10 Sqy			\$0.00	\$0.00	\$3.49		\$8.78 / Sqyd			\$87.80
	Asphalt disposal - hauling and disposal fee, 4" thick	1 Sqy	d \$1.00	\$1.00	\$4.70	\$4.70	\$1.32	\$1.32	\$7.02 / Sqyd	\$0.00	\$0.00	\$7.02
02170 -	Saw cutting			00:	00	0	<b>#0</b>	045.55	00047	0	00.77	<b>A5</b>
	Saw cutting, asphalt, up to 3" deep Saw cutting, asphalt, after 3" deep; each addl inch of depth	65 Lr 65 Lr			\$0.07 \$0.30	\$4.55 \$19.50	\$0.26 \$0.44		\$0.81 / Lnft \$1.56 / Lnft			\$52.65 \$101.40
	Saw cutting, asphait, after 3 deep; each additinch of depth	00 LI	11 \$0.82	\$53.30	\$0.30	\$19.50	\$0.44	\$28.00	\$1.56 / LIII	\$0.00	\$0.00	\$101.40
02310 -	Fine grade		+							1		
02310 -	Fine grade under asphalt	10 Sqy	d \$0.26	\$2.60	\$0.00	\$0.00	\$0.21	\$2.10	\$0.47 / Sqyd	\$0.00	\$0.00	\$4.70
	Timo grado dilatri dopridit	10 049	u	Ψ2.00	ψ0.00	ψ0.00	Ψ0.21	Ψ2.10	ψυ.+ <i>i</i> 7 οqyα	ψ0.00	Ψ0.00	Ψ+.7 0
02320 -	Backfill											
	Backfill, dozer backfilling, trench, no compaction	33 Cuy	d \$0.80	\$26.40	\$0.00	\$0.00	\$1.28	\$42.24	\$2.08 / Cuyd	\$0.00	\$0.00	\$68.64
02340 -	Bedding											
	Bedding, crushed stone 3/4" to 1/2"	9 Cuy	d \$8.47	\$72.00	\$32.03	\$272.26	\$1.89	\$16.07	\$42.39 / Cuyd	\$0.00	\$0.00	\$360.32
02360 -	Compaction						***	*****	******			
	Compaction, walk behind, vibrating roller 24" W, 6" lifts, 2 passes	74 Cuy			\$0.00	\$0.00	\$0.51	\$37.74	\$2.41 / Cuyd			\$178.34
	Compaction, rammer tamper, 6" to 11", 4" lifts, bedding  Compaction, rammer tamper, 6" to 11", 4" lifts, backfill	74 Cuy 74 Cuy			\$0.00 \$0.00	\$0.00 \$0.00	\$0.78 \$0.78		\$3.71 / Cuyd \$3.71 / Cuyd			\$274.54 \$274.54
	Compaction, familier tamper, 6 to 11, 4 lins, backilli	74 Cuy	u \$2.95	\$210.02	\$0.00	\$0.00	φ0.70	\$31.12	\$3.717 Cuyu	\$0.00	\$0.00	<b>Φ274.34</b>
02450 -	Excavating, trench											
02 100	U,	07 Cuy	d \$1.76	\$188.32	\$0.00	\$0.00	\$1.28	\$136.96	\$3.04 / Cuyd	\$0.00	\$0.00	\$325.28
					***	*				***		*
02460 -	Hauling											
	Hauling, LCY, no loading, 20 c.y. dump truck, 30 MI RT, 0.33 lds/hr	74 Cuy	d \$5.95	\$440.30	\$0.00	\$0.00	\$10.40	\$769.60	\$16.35 / Cuyd	\$0.00	\$0.00	\$1,209.90
	Loading Trucks, F.E. Loader, 3 C.Y	74 Cuy			\$0.00	\$0.00	\$1.24	\$91.76	\$1.98 / Cuyd			\$146.52
	Disposal fee	4 T	k \$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$105 / Trk	\$0.00	\$388.50	\$388.50
02490 -	Erosion control Erosion control allowance::	1 Lsu	m \$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$500 / Lsum	\$0.00	\$500.00	\$500.00
	Erosion control allowance::	I LSU	11 \$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$500 / LSum	\$0.00	\$500.00	\$500.00
02600 -	Base course		1									
2200	Base course, large areas, crushed 3/4" stone, compacted to 9" deep	10 Sqy	d \$0.80	\$8.00	\$8.06	\$80.60	\$1.02	\$10.20	\$9.88 / Sqyd	\$0.00	\$0.00	\$98.80
		549	45.00	\$0.00	\$5.00	\$55.00	Ψ1.02	<b>\$.3.20</b>	ψο.οο , <b>ο</b> qyα	\$0.00	\$5.00	<del>430.00</del>
02610 -	Asphalt concrete pavement											
	Asphaltic conc pavement, pavement replacement over trench, 4" thick	10 Sqy	d \$35.00	\$350.00	\$18.00	\$180.00	\$2.98	\$29.80	\$55.98 / Sqyd	\$0.00	\$0.00	\$559.80
02840 -	Landscaping											
	Landscaping Allowance:	1 Lsu			\$0.00	\$0.00	\$0.00		\$500 / Lsum			\$500.00
	Traffic Control Allowance:	1 Lsu	m \$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$500 / Lsum	\$0.00	\$500.00	\$500.00
	CITE CONCEDUCTION To a series		1	\$4.0EE.00		ØE04.04		Ø4 222 22		ØE00.00	¢4 200 50	<b>₽E 600 7</b> E
	SITE CONSTRUCTION Total		-	\$1,855.02		\$561.61		\$1,333.63		\$500.00	\$1,388.50	\$5,638.75
			+							1		
				1						1		

Item	Item Description	Quantity	Unit	Labor \$/Unit	Labor Amount	Materials \$/Unit	Materials Amount	Equip \$/Unit	Equip Amount	Total \$/Unit	Subs Amount	Other Amount	Grand Total
15 - ME	CHANICAL												
15090 -	Pipe,drng&sewage,concret Piping, drainage & sewage, RCP, class 3, no gaskets, 90" dia	20	Lnft	\$125.05	\$2,501.00	\$450.00	\$9,000.00	\$12.40	\$248.00	\$587.45 / Lnft	\$0.00	\$0.00	\$11,749.00
	Piping, water dist, conc pipe, gasket, 90" dia	20	Each	\$125.05	\$2,501.00	\$36.00	\$9,000.00	\$12.40	\$248.00	\$39.14 / Each	\$0.00	\$0.00	\$11,749.00 \$78.28
	i iping, water dist, some pipe, gasker, so dia		Laon	ψ0.14	ψ0.20	ψου.σο	Ψ12.00	ψ0.00	Ψ0.00	φοσ.147 Εασί1	ψ0.00	ψ0.00	ψ10.20
	MECHANICAL Total				\$2,507.28		\$9,072.00		\$248.00		\$0.00	\$0.00	\$11,827.28
	Project BL-L (90 inch RCP) Total				\$4,362.30		\$9,633.61		\$2,721.63		\$500.00	\$1,388.50	\$18,606.03
1													
Project E	l BL-L - Bridge												
	NERAL REQUIREMENTS												
01210 -	Lifting and hoisting equipment		_		<b>A</b> =		*- * *	00	<b>A</b> 0.7 - 7.7 · ·	000000	00=		055-15
	Rent crane truck mounted, hydraulic, 55 ton capacity	30	Day	\$0.00	\$0.00	\$0.00	\$0.00	\$990.00	\$29,700.00	\$28038 / Day	\$27,048.00	\$0.00	\$56,748.00
	GENERAL REQUIREMENTS Total				\$0.00		\$0.00		\$29,700.00		\$27,048.00	\$0.00	\$56,748.00
	OENERO E NE QUINEINTO TOTAL				ψ0.00		φο.σο		Ψ20,700.00		φ21,040.00	φο.σσ	φου,1-10.00
02 SITE	CONSTRUCTION												
02280 -	Sheet piling												
1	Sheet piling, steel, no wales, 15' excav., drive, extract & salvage	2700	Sqft	\$14.03	\$37,881.00	\$11.41	\$30,807.00	\$10.60	\$28,620.00	\$36.04 / Sqft	\$0.00	\$0.00	\$97,308.00
02340 -	l Bedding												
02010	Bedding, crushed stone 3/4" to 1/2"	52	Cuyd	\$8.47	\$440.44	\$32.03	\$1,665.56	\$1.89	\$98.28	\$42.39 / Cuyd	\$0.00	\$0.00	\$2,204.28
	<u>.</u>		,	·	·			·	·				
02360 -	Compaction												
1	Compaction, walk behind, vibrating plate 18" wide, subgrade	25	Cuyd	\$1.90	\$47.50	\$0.00	\$0.00	\$0.51	\$12.75	\$2.41 / Cuyd	\$0.00	\$0.00	\$60.25
	Compaction, walk behind, vibrating plate 18" wide, bedding	50	Cuyd	\$1.90	\$95.00	\$0.00	\$0.00	\$0.51	\$25.50	\$2.41 / Cuyd	\$0.00	\$0.00	\$120.50
02420 -	L Excavating, structural												
02 /20	Excavating, structural, mach excav, com earth, hyd backhoe, 2 CY	2000	Cuyd	\$5.28	\$10,560.00	\$0.00	\$0.00	\$6.70	\$13,400.00	\$11.98 / Cuyd	\$0.00	\$0.00	\$23,960.00
										•			
02420 -													
	Hauling, LCY, no loading, 20 c.y. dump truck, 30 MI RT, 0.33 lds/hr	2600 2600	Cuyd	\$5.95	\$15,470.00 \$1,924.00	\$0.00 \$0.00	\$0.00 \$0.00	\$10.40 \$1.24	\$27,040.00 \$3,224.00	\$16.35 / Cuyd	\$0.00	\$0.00	\$42,510.00 \$5,148.00
1	Loading Trucks, F.E. Loader, 3 C.Y  Disposal fee	130	Cuyd Trk	\$0.74 \$0.00	\$1,924.00 \$0.00	\$0.00	\$0.00	\$1.24	\$3,224.00 \$0.00	\$1.98 / Cuyd \$105 / Trk	\$0.00 \$0.00	\$0.00 \$13,650.00	\$5,148.00 \$13,650.00
	DISPOSAL TEE	130	IIK	ψ0.00	ψ0.00	Ψ0.00	ψ0.00	ψ0.00	ψ0.00	ψ1037 TIK	ψ0.00	ψ13,030.00	ψ13,030.00
	SITE CONSTRUCTION Total				\$66,417.94		\$32,472.56		\$72,420.53		\$0.00	\$0.00	\$184,961.03
03 - COI	NCRETE												
02150	Concrete ready mix												
03150 -	Concrete, ready mix Wall, bridge	278	Cuyd	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$1000 / Cuyd	\$0.00	\$278,000.00	\$278,000.00
	Footing	32	Cuyd	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$1000 / Cuyd	\$0.00	\$32,000.00	\$32,000.00
	Elevated slab	32	Cuyd	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$1000 / Cuyd	\$0.00	\$32,000.00	\$32,000.00
	Headwall	10	Cuyd	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$1000 / Cuyd	\$0.00	\$10,000.00	\$10,000.00
	00110======				00.55		<b>**</b>		<b>**</b>		00.55	<b>#050</b> 000 05	<b>#050</b> 000 55
	CONCRETE Total				\$0.00		\$0.00		\$0.00		\$0.00	\$352,000.00	\$352,000.00
<u> </u>													

Item	Item Description Qu	uantity	Unit	Labor \$/Unit	Labor Amount	Materials \$/Unit	Materials Amount	Equip \$/Unit	Equip Amount	Total \$/Unit	Subs Amount	Other Amount	Grand Total
05 - ME	TALS												
05010 -	Misc Metals												
	Misc metals, allowance	1	Lsum	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$500 / Lsum	\$0.00	\$500.00	\$500.00
05040 -	Structural steel members												
	Struct stl, WF, W 36 x 170	270	Lnft	\$4.66	\$1,258.20	\$192.44	\$51,958.80	\$1.87	\$504.90	\$198.97 / Lnft	\$0.00	\$0.00	\$53,721.90
	MECHANICAL Total				\$1,258.20		\$51,958.80		\$504.90		\$0.00	\$500.00	\$54,221.90
	Project Bridge Total				\$67,676.14		\$84,431.36		\$102,625.43		\$27,048.00	\$352,500.00	\$647,930.93
	Project BL-L Total				\$72,038.44		\$94,064.97		\$105,347.06	•	\$27,548.00	\$353,888.50	\$666,536.96
	Grand Total				\$72,038.44		\$94,064.97		\$105,347.06		\$27,548.00	\$353,888.50	\$652,886.96

Category	Percent	Amount
Labor	6.11%	\$72,038
Material	7.98%	\$94,065
Equipment	8.94%	\$105,347
Subcontractor	2.34%	\$27,548
Other	30.03%	\$353,889
Net Costs		\$652,887
Labor Mark-up	18.00%	\$12,967
Material Mark-up	15.00%	\$14,110
Subcontractor Mark-up	5.00%	\$1,377
Equipment Mark-up	15.00%	\$15,802
Sales tax (material)	7.75%	\$7,290
Sales tax (equipment)	7.75%	\$8,164
Material Shipping & Handling	2.50%	\$2,352
Worker's Travel/Subsistence	0.10%	\$72
Subtotal		\$715,021
Contractor General Conditions	12.00%	\$85,803
Subtotal		\$800,824
Earthquake Insurance	0.10%	\$801
Subtotal		\$801,625
Construction Contingency	20.00%	\$160,325
Subtotal		\$961,949
Bldg Risk, Liability Auto Ins.	2.00%	\$19,239
Subtotal		\$981,188
Performance Bond	1.00%	\$9,812
Payment Bond	1.00%	\$9,812
Subtotal		\$1,000,812
Engineering Fee	10.00%	\$65,289
Environ Permitting/Monitoring (L.S.)	-	\$750,000
Total Estimate		\$1,816,101



Project Number:: 128290

Client:: City of Carlsbad

Estimator(s):: JW / DG

Estimating Office:: Walnut Creek

Estimate Issue Number:: 01

Estimate Original Issue Date:: 3/14/2006

Estimate Revision Number:: 04

Estimate Revision Date:: 6/27/2008

BC Project Manager:: Chris Herencia
Estimate QA/QC Reviewer:: Butch Matthews

Estimate QA/QC Date:: 6/27/2008

PROJECT LOCATION / PROCESS AREA

Project BM - Located in Basin B

Item	Item Description	Quantity	Unit	Labor \$/Unit	Labor Amount	Materials \$/Unit	Materials Amount	Equip \$/Unit	Equip Amount	Total \$/Unit	Subs Amount	Other Amount	Grand Total
Project B													
02 SITE	CONSTRUCTION												
00040	The same de												
02310 - 1	Fine grade Fine grade under asphalt	293	Sqyd	\$0.26	\$76.18	\$0.00	\$0.00	\$0.21	\$61.53	\$0.47 / Sqyd	\$0.00	\$0.00	\$137.71
	Fine grade under asphalt	293	Sqya	\$0.26	\$70.18	\$0.00	\$0.00	\$0.21	\$01.53	\$0.47 / Sqy0	\$0.00	\$0.00	\$137.71
02340 - 1	Bedding												
02070	Bedding, crushed stone 3/4" to 1/2"	125	Cuyd	\$8.47	\$1,058.75	\$32.03	\$4,003.75	\$1.89	\$236.25	\$42.39 / Cuyo	\$0.00	\$0.00	\$5,298.75
			,	*-	, ,	,	, ,	, ,	,	,,		, , , , ,	* - ,
02360 - (	Compaction												
	Compaction, walk behind, vibrating roller 24" W, 6" lifts, 2 passes	381	Cuyd	\$1.90	\$723.90	\$0.00	\$0.00	\$0.51	\$194.31	\$2.41 / Cuyo			\$918.21
	Compaction, rammer tamper, 6" to 11", 4" lifts, bedding	381	Cuyd	\$2.93	\$1,116.33	\$0.00	\$0.00	\$0.78					\$1,413.51
	Compaction, rammer tamper, 6" to 11", 4" lifts, backfill	381	Cuyd	\$2.93	\$1,116.33	\$0.00	\$0.00	\$0.78	\$297.18	\$3.71 / Cuyo	\$0.00	\$0.00	\$1,413.51
02450 - 1	Excavating, trench	000	01	<b>C4.05</b>	<b>©4</b> 040 00	<b>#0.00</b>	<b>#0.00</b>	<b>C4</b> 40	<b>#</b> 000 40	<b>60.07.</b> ( <b>0</b>	<b>.</b>	<b>#</b> 0.00	<b>CO 4 40 00</b>
	Excavate trench, common earth curb, 4'-6' deep, 1-1/2 CY hyd	636	Cuyd	\$1.95	\$1,240.20	\$0.00	\$0.00	\$1.42	\$903.12	\$3.37 / Cuyo	\$0.00	\$0.00	\$2,143.32
02480 - 1	Pin-ran												
02400 - 1	Rip-rap, energy dissipater	34	Sqyd	\$55.00	\$1,870.00	\$25.00	\$850.00	\$18.70	\$635.80	\$98.7 / Sqyd	\$0.00	\$0.00	\$3,355.80
	Trip rup; energy dissipater	01	Oqyu	ψ00.00	ψ1,070.00	Ψ20.00	ψοσο.σο	Ψ10.70	φοσο.σσ	φου. <i>τ τ</i> οφγα	ψ0.00	ψ0.00	ψ0,000.00
02490 - 1	Erosion control												
	Erosion control allowance:	2	Lsum	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$2614 / Lsum	\$0.00	\$5,228.00	\$5,228.00
	Base course												
	Base course, large areas, crushed 3/4" stone, compacted to 9" deep	376	Sqyd	\$0.80	\$300.80	\$8.06	\$3,030.56	\$1.02	\$383.52	\$9.88 / Sqyc	\$0.00	\$0.00	\$3,714.88
02840 - 1	Landscaping				***					<b>*</b> //			
	Landscaping Allowance:	1	Lsum	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$500 / Lsum		\$0.00	\$500.00
	Traffic Control Allowance:	1	Lsum	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$500 / Lsum	\$0.00	\$500.00	\$500.00
	SITE CONSTRUCTION Total				\$7.502.49		\$7.884.31		\$3.008.89		\$500.00	\$5,728.00	\$24.623.69
	GITE CONGTROOTION TOTAL				ψ1,502.49		ψ1,004.51		ψ3,000.03		φουσ.σσ	ψ0,720.00	Ψ24,023.03
03 - COI	ICRETE												
03150 - (	Concrete, ready mix												
	5'x32" RCB Culvert	99	Cuyd	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$1000 / Cuyo			\$99,000.00
	Headwall	2	Cuyd	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00		\$1000 / Cuyo		* /	\$2,000.00
	Headwall	2	Cuyd	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$1000 / Cuyo	\$0.00	\$2,000.00	\$2,000.00
							<b>4</b>						
	CONCRETE Total				\$0.00		\$0.00		\$0.00		\$0.00	\$103,000.00	\$103,000.00
	Desired DM Test				¢7.500.40		\$7,884.31		\$3,008.89		ØE00.00	£400.700.00	\$127,623.69
	Project BM Total				\$7,502.49		\$7,884.31		\$3,008.89		\$500.00	\$108,728.00	\$127,623.69
	Grand Total				\$7.502.49		\$7.884.31		\$3.008.89		\$500.00	\$108,728.00	\$127,623.69

Category	Percent	Amount
Labor	0.64%	\$7,502
Material	0.67%	\$7,884
Equipment	0.26%	\$3,009
Subcontractor	0.04%	\$500
Other	9.23%	\$108,728
Net Costs		\$127,624
Labor Mark-up	18.00%	\$1,350
Material Mark-up	15.00%	\$1,183
Subcontractor Mark-up	5.00%	\$25
Equipment Mark-up	15.00%	\$451
Sales tax (material)	7.75%	\$611
Sales tax (equipment)	7.75%	\$233
Material Shipping & Handling	2.50%	\$197
Worker's Travel/Subsistence	0.10%	\$8
Subtotal		\$131,682
Contractor General Conditions	12.00%	\$15,802
Subtotal		\$147,484
Earthquake Insurance	0.10%	\$147
Subtotal		\$147,631
Construction Contingency	20.00%	\$29,526
Subtotal		\$177,158
Bldg Risk, Liability Auto Ins.	2.00%	\$3,543
Subtotal		\$180,701
Performance Bond	1.00%	\$1,807
Payment Bond	1.00%	\$1,807
Subtotal		\$184,315
Engineering Fee	10.00%	\$12,762
Environmental Permitting (Lump Sum)	-	\$7,000
Total Estimate		\$204,077



Project Number:: 128290

Client:: City of Carlsbad

Estimator(s):: SB / DG

Estimating Office:: Walnut Creek

Estimate Issue Number:: 01

Estimate Original Issue Date:: 5/12/2006

Estimate Revision Number:: 04

Estimate Revision Date:: 6/27/2008

BC Project Manager:: Chris Herencia
Estimate QA/QC Reviewer:: Bob Ferguson
Estimate QA/QC Date:: 6/27/2008

PROJECT LOCATION / PROCESS AREA

Project BN - Located in Basin B

Item	Item Description	Quantity	Unit	Labor \$/Unit	Labor Amount	Materials \$/Unit	Materials Amount	Equip \$/Unit	Equip Amount	Total \$/Unit	Subs Amount	Other Amount	Grand Total
Project E	BN												
02 - SIT	E CONSTRUCTION												
02060 -	Site demolition												
	Site dml, conc7" to 24" thick, rod reinforced	23	Cuyd	\$92.56	\$2,128.88	\$0.00	\$0.00	\$61.09	\$1,405.07	\$153.65 / Cuyd	\$0.00	\$0.00	\$3,533.95
02420 -	Excavating, structural												
	Excavating, structural, mach excav, com earth, hyd backhoe, 3 CY	800	Cuyd	\$5.28	\$4,224.00	\$0.00	\$0.00	\$6.70	\$5,360.00	\$11.98 / Cuyd	\$0.00	\$0.00	\$9,584.00
	Excavating, structural, mach excav, com earth, hyd backhoe, 3 CY	500	Cuyd	\$5.28	\$2,640.00	\$0.00	\$0.00	\$6.70	\$3,350.00	\$11.98 / Cuyd	\$0.00	\$0.00	\$5,990.00
02430 -	Fill												
	Fill, spread dumped material, by dozer, no compaction	1400	Cuyd	\$0.72	\$1,008.00	\$0.00	\$0.00	\$1.15	\$1,610.00	\$1.87 / Cuyd	\$0.00	\$0.00	\$2,618.00
02460 -	Hauling												
	Disposal fee	20	Trk	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$105 / Trk	\$0.00	\$2,100.00	\$2,100.00
	Hauling, LCY, no loading, 20 c.y. dump truck, 30 MI RT, 0.33 lds/hr,	23	Cuyd	\$5.95	\$136.85	\$0.00	\$0.00	\$10.40	\$239.20	\$16.35 / Cuyd	\$0.00	\$0.00	\$376.05
	Hauling, LCY, no loading, 20 c.y. dump truck, 30 MI RT, 0.33 lds/hr	2600	Cuyd	\$5.95	\$15,470.00	\$0.00	\$0.00	\$10.40	\$27,040.00	\$16.35 / Cuyd	\$0.00	\$0.00	\$42,510.00
	Hauling, LCY, no loading, 12 c.y. dump truck, 6 MI RT, 1 lds/hr	1400	Cuyd	\$10.52	\$14,728.00	\$0.00	\$0.00	\$18.95	\$26,529.00	\$29.47 / Cuyd	\$0.00	\$0.00	\$41,257.00
	Loading Trucks, F.E. Loader, 3 C.Y	2600	Cuyd	\$0.74	\$1,924.00	\$0.00	\$0.00	\$1.24	\$3,224.00	\$1.98 / Cuyd	\$0.00	\$0.00	\$5,148.00
	Loading Trucks, F.E. Loader, 3 C.Y, concrete	23	Cuyd	\$0.74	\$17.02	\$0.00	\$0.00	\$1.24	\$28.52	\$1.98 / Cuyd	\$0.00	\$0.00	\$45.54
	Loading Trucks, F.E. Loader, 3 C.Y	1400	Cuyd	\$0.74	\$1,036.00	\$0.00	\$0.00	\$1.24	\$1,736.00	\$1.98 / Cuyd	\$0.00	\$0.00	\$2,772.00
02470 -	Soil stabilization												
	Soil stabilization, geotextile fabric, woven, H.D., 600 lb. tensile st	1667	Sqyd	\$0.32	\$533.44	\$1.85	\$3,083.95	\$0.00	\$0.00	\$2.17 / Sqyd	\$0.00	\$0.00	\$3,617.39
02480 -	Rip-rap												
02 100	Backing Material class #1	33	Cuyd	\$17.00	\$561.00	\$60.00	\$1,980.00	\$20.00	\$660.00	\$97 / Cuyd	\$0.00	\$0.00	\$3,201.00
	Rip-rap, mach placed for slp protec, 18" min thick, not grouted	155	Sayd	\$56.55	\$8,765.25	\$49.55	\$7,680.25	\$12.33			\$0.00		\$18,356.65
	Rip-rap, gabions, galv steel mesh boxes, stone filled	165	Cuyd	\$49.95	\$8,241.75	\$60.56	\$9,992.40	\$16.44	\$2,712.60		\$0.00		\$20,946.75
	SITE CONSTRUCTION Total	1			\$61,414.19		\$22,736,60		\$75,805.54		\$0.00	\$2,100,00	\$162.056.33
03 - CO	NCRETE						. ,						
03150 -	Concrete, ready mix												
	Apron wall	8	Cuyd	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$1000 / Cuyd	\$0.00	\$8,000.00	\$8,000.00
	CONCRETE Total	1			\$0.00		\$0.00		\$0.00		\$0.00	\$8,000.00	\$8,000.00
	Decise ON Table				PC4 444 40		f00 700 00		\$75.805.54		\$0.00	£40,400,00	£470.050.00
	Project BN Total				\$61,414.19		\$22,736.60		<b>\$75,8∪5.54</b>		\$0.00	\$10,100.00	\$170,056.33
	Grand Total				\$61,414.19		\$22,736.60		\$75,805.54		\$0.00	\$10,100.00	\$170,056.33

Category	Percent	Amount
Labor	5.21%	\$61,414
Material	1.93%	\$22,737
Equipment	6.43%	\$75,806
Subcontractor	0.00%	\$0
Other	0.86%	\$10,100
Net Costs		\$170,056
Labor Mark-up	18.00%	\$11,055
Material Mark-up	15.00%	\$3,410
Subcontractor Mark-up	5.00%	\$0
Equipment Mark-up	15.00%	\$11,371
Sales tax (material)	7.75%	\$1,762
Sales tax (equipment)	7.75%	\$5,875
Material Shipping & Handling	2.50%	\$568
Worker's Travel/Subsistence	0.10%	\$61
Subtotal		\$204,159
Contractor General Conditions	12.00%	\$24,499
Subtotal		\$228,658
Earthquake Insurance	0.10%	\$229
Subtotal		\$228,887
Construction Contingency	25.00%	\$57,222
Subtotal		\$286,108
Bldg Risk, Liability Auto Ins.	2.00%	\$5,722
Subtotal		\$291,831
Performance Bond	1.00%	\$2,918
Payment Bond	1.00%	\$2,918
Subtotal		\$297,667
Engineering Fee	10.00%	\$17,006
Environmental Permitting (Lump Sum)	-	\$42,000
Total Estimate		\$356,673



Project Number:: 128290

Client:: City of Carlsbad

Estimator(s):: JW / DG

Estimating Office:: Walnut Creek

Estimate Issue Number:: 01

Estimate Original Issue Date:: 3/14/2006

Estimate Revision Number:: 04

Estimate Revision Date:: 6/27/2008

BC Project Manager:: Chris Herencia
Estimate QA/QC Reviewer:: Butch Matthews

Estimate QA/QC Date:: 6/27/2008

PROJECT LOCATION / PROCESS AREA

Project BNB - Located in Basin B

Item	Item Description Qua	antity	Unit	Labor \$/Unit	Labor Amount	Materials \$/Unit	Materials Amount	Equip \$/Unit	Equip Amount	Total \$/Unit	Subs Amount	Other Amount	Grand Total
Project I	BNB												
00 CIT	E CONSTRUCTION												
02 - 311	ECONSTRUCTION												
02060	- Site demolition												
	Site dml, no hauling, pavement removal, bit, 4" to 6" thick	204	Sqyd	\$5.29	\$1,077.63	\$0.00	\$0.00	\$3.49	\$710.95	\$8.78 / Sqyd	\$0.00	\$0.00	\$1,788.57
02220	- Backfill												
02320		11000	Cuyd	\$0.80	\$8,800.00	\$0.00	\$0.00	\$1.28	\$14,080.00	\$2.08 / Cuyd	\$0.00	\$0.00	\$22,880.00
	g,,		,-	*****	<b>V</b> 0,00000	*****	******	*	***,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	<b>V</b> =,, -	70.00	70.00	<b>,</b>
02340	- Bedding												
	Bedding, crushed stone 3/4" to 1/2", inlet	1467	Cuyd	\$8.47	\$12,425.49	\$32.03	\$46,988.01	\$1.89	\$2,772.63	\$42.39 / Cuyd	\$0.00	\$0.00	\$62,186.13
02360	- Compaction												
02000		11000	Cuyd	\$1.90	\$20,900.00	\$0.00	\$0.00	\$0.51	\$5,610.00	\$2.41 / Cuyd	\$0.00	\$0.00	\$26,510.00
	Compaction, trench, walk behind, vib. plate, subgrade	667	Cuyd	\$1.90	\$1,266.73	\$0.00	\$0.00	\$0.51	\$340.02	\$2.41 / Cuyd		\$0.00	\$1,606.75
	Compaction, trench, walk behind, vib Plate	11000	Cuyd	\$1.90	\$20,900.00	\$0.00	\$0.00	\$0.51	\$5,610.00	\$2.41 / Cuyd	\$0.00	\$0.00	\$26,510.00
02450	- Excavating, trench												
02400		17600	Cuyd	\$1.95	\$34,320.00	\$0.00	\$0.00	\$1.42	\$24.992.00	\$3.37 / Cuyd	\$0.00	\$0.00	\$59,312.00
			1	·				•					
02480	- Rip-rap					***	*					*	
	Rip-rap, gabions, galv steel mesh boxes, stone filled	104	Cuyd	\$49.95	\$5,194.80	\$60.56	\$6,298.24	\$16.44	\$1,709.76	\$126.95 / Cuyd	\$0.00	\$0.00	\$13,202.80
02610 -	Asphalt concrete pavement												
	Asphaltic conc pavement, pavement replacement over trench, 6"	204	Sqyd	\$44.54	\$9,073.24	\$27.00	\$5,500.17	\$3.79	\$772.06	\$75.33 / Sqyd	\$0.00	\$0.00	\$15,345.47
02 00	SITE CONSTRUCTION Total				\$113,957.89		\$58,786.42		\$56,597.42		\$0.00	\$0.00	\$229,341.73
03 - 00	WCRETE												
03150 -	Concrete, ready mix												
	Headwall, with apron	5	Cuyd	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$1000 / Cuyd	\$0.00	\$5,000.00	\$5,000.00
	CONCRETE Total				\$0.00		\$0.00		\$0.00		\$0.00	\$5,000.00	\$5,000.00
	CONCRETE TOtal				φυ.υυ		\$0.00		\$0.00		\$0.00	\$5,000.00	\$5,000.00
15 - ME	CHANICAL												
15090	Pipe,drng&sewage,concrete	0000	1 61	£405.05	£450 400 00	<b>#</b> 000 00	£4 000 000 00	<b>C40.40</b>	<b>©44.040.00</b>	\$407.45 / L-ft	<b>#0.00</b>	<b>#0.00</b>	<b>#4 574 000 00</b>
	Piping, drainage & sewage, RCP, class 3, no gaskets, 84" dia Piping, water dist, conc pipe, gasket, 84" dia	3600 360	Lnft Each	\$125.05 \$3.14	\$450,180.00 \$1,130.40	\$300.00 \$36.00	\$1,080,000.00 \$12,960.00	\$12.40 \$0.00	\$44,640.00 \$0.00	\$437.45 / Lnft \$39.14 / Each			\$1,574,820.00 \$14,090.40
	i iping, water dist, conc pipe, gasker, or dia	300	Lacii	ψ5.14	ψ1,130. <del>4</del> 0	ψ30.00	ψ12,300.00	ψ0.00	ψ0.00	ψ55.147 Lacii	ψ0.00	ψ0.00	\$14,030.40
15395	Cleanouts												
	Cleanouts, flr type, rnd top, xtra hvy dty, 84" pipe size	9	Each	\$2,217.00	\$19,953.00	\$3,659.00	\$32,931.00	\$0.00	\$0.00	\$5876 / Each	\$0.00	\$0.00	\$52,884.00
	MECHANICAL Total				\$471,263.40		\$1,125,891.00		\$44,640.00		\$0.00	\$0.00	\$1,641,794.40
	INIEGRANICAL TOTAL				φ471,203.40		φ1,120,031.00		φ44,040.00		φ0.00	φυ.υυ	φ1,041,794.40
	Project BNB Total				\$585,221.29		\$1,184,677.42		\$101,237.42		\$0.00	\$5,000.00	\$1,876,136.13
	Grand Total				\$585,221.29		\$1,184,677.42		\$101,237.42		\$0.00	\$5,000.00	\$1,876,136.13

Category	Percent	Amount
Labor	49.66%	\$585,221
Material	100.53%	\$1,184,677
Equipment	8.59%	\$101,237
Subcontractor	0.00%	\$0
Other	0.42%	\$5,000
Net Costs		\$1,876,136
Labor Mark-up	18.00%	\$105,340
Material Mark-up	15.00%	\$177,702
Subcontractor Mark-up	5.00%	\$0
Equipment Mark-up	15.00%	\$15,186
Sales tax (material)	7.75%	\$91,813
Sales tax (equipment)	7.75%	\$7,846
Material Shipping & Handling	2.50%	\$29,617
Worker's Travel/Subsistence	0.10%	\$585
Subtotal		\$2,304,224
Contractor General Conditions	12.00%	\$276,507
Subtotal		\$2,580,731
Earthquake Insurance	0.10%	\$2,581
Subtotal		\$2,583,311
Construction Contingency	20.00%	\$516,662
Subtotal		\$3,099,974
Bldg Risk, Liability Auto Ins.	2.00%	\$61,999
Subtotal		\$3,161,973
Performance Bond	1.00%	\$31,620
Payment Bond	1.00%	\$31,620
Subtotal		\$3,225,213
Engineering Fee	10.00%	\$187,614
Environmental Permitting (Lump Sum)	-	\$10,000
Total Estimate		\$3,422,826



Project Number:: 128290

Client:: City of Carlsbad

Estimator(s):: SB / DG

Estimating Office:: Walnut Creek

Estimate Issue Number:: 01

Estimate Original Issue Date:: 3/14/2006

Estimate Revision Number:: 04

Estimate Revision Date:: 6/27/2008

BC Project Manager:: Chris Herencia
Estimate QA/QC Reviewer:: Butch Matthews

Estimate QA/QC Date:: 6/27/2008

PROJECT LOCATION / PROCESS AREA

Project BP - Located in Basin B

Item	Item Description	Quantity	Unit	Labor \$/Unit	Labor Amount	Materials \$/Unit	Materials Amount	Equip \$/Unit	Equip Amount	Total \$/Unit	Subs Amount	Other Amount	Grand Total
Project E													
01 - GEI	NERAL REQUIREMENTS												
01200 -	General equipment rental												
01200-	Trench box, 9500 lbs, 8'x 20'	1	Day	\$0.00	\$0.00	\$0.00	\$0.00	\$240.00	\$960.00	\$240 / Day	\$0.00	\$0.00	\$960.00
	Trench Plates allowance	1	Mo	\$0.00	\$0.00	\$0.00	\$0.00	\$900.00		\$900 / Mo	\$0.00	*	\$900.00
	Tronon i lace allemane			ψ0.00	ψ0.00	ψο.σσ	ψ0.00	φοσσίσο	\$000.00	ψοσογ inio	Ψ0.00	Ψοισσ	Ψ000.00
	GENERAL REQUIREMENTS Total				\$0.00		\$0.00		\$1,860.00		\$0.00	\$0.00	\$1,860.00
02 SITE	CONSTRUCTION												
	07. 1 17.												
02060 -	Site demolition			<b>AF 00</b>	<b>ATO 05</b>	<b>#</b> 0.00	<b>*</b> 0.00	00.40	250.05	00.70 / 0		<b>A</b> 0.00	0101 70
	Site dml, no hauling, pavement removal, bit, 4" to 6" thick  Asphalt disposal - hauling and disposal fee, 4" thick	15 15		\$5.29 \$1.00	\$79.35 \$15.00	\$0.00 \$4.70	\$0.00 \$70.50	\$3.49 \$1.32		\$8.78 / Sqyd \$7.02 / Sqyd	\$0.00 \$0.00		\$131.70 \$105.30
	Asphalt disposal - hauling and disposal fee, 4 thick	15	Sqya	\$1.00	\$15.00	\$4.70	\$70.50	\$1.32	\$19.80	\$7.02 / Sqya	\$0.00	\$0.00	\$105.30
02170 -	Saw cutting												
0	Saw cutting, asphalt, up to 3" deep	150	Lnft	\$0.48	\$72.00	\$0.07	\$10.50	\$0.26	\$39.00	\$0.81 / Lnft	\$0.00	\$0.00	\$121.50
	Saw cutting, asphalt, after 3" deep; each addl inch of depth	150	Lnft	\$0.82	\$123.00	\$0.30	\$45.00	\$0.44		\$1.56 / Lnft	\$0.00		\$234.00
02310 -	Fine grade												
	Fine grade under asphalt	15	Sqyd	\$0.26	\$3.90	\$0.00	\$0.00	\$0.21	\$3.15	\$0.47 / Sqyd	\$0.00	\$0.00	\$7.05
02320 -											***	***	
	Backfill, dozer backfilling, trench, up to 300' haul, no compaction,	250	Cuyd	\$0.80	\$200.00	\$0.00	\$0.00	\$1.28	\$320.00	\$2.08 / Cuyd	\$0.00	\$0.00	\$520.00
02240	Bedding												
02340	Bedding, crushed stone 3/4" to 1/2", outlet	30	Cuvd	\$8.47	\$254.10	\$32.03	\$960.90	\$1.89	\$56.70	\$42.39 / Cuyd	\$0.00	\$0.00	\$1,271.70
	bedding, ordered storie 6/4 to 1/2 ; oddet	00	Ouyu	Ψ0.+1	Ψ204.10	ψ02.00	ψουσ.σσ	ψ1.00	φου σ	ψ-12.00 / Ouyu	Ψ0.00	ψ0.00	Ψ1,271.70
02360 -	Compaction												
	Compaction, trench, walk behind, vib. plate, subgrade outlet	250	Cuyd	\$1.90	\$475.00	\$0.00	\$0.00	\$0.51	\$127.50	\$2.41 / Cuyd	\$0.00	\$0.00	\$602.50
02450 -	Excavating, trench												
	Excavate trench, no sht or dewtrg, 4'-6' D, 1-1/2 CY hyd bac, outlet	250	Cuyd	\$1.95	\$487.50	\$0.00	\$0.00	\$1.42	\$355.00	\$3.37 / Cuyd	\$0.00	\$0.00	\$842.50
00.460	Lauting												
02400 -	Hauling Disposal fee	5	Trk	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$105 / Trk	\$0.00	\$525.00	\$525.00
	Hauling, LCY, no loading, 12 CY dump truck, stockpile on site	100	Cuyd	\$4.66		\$0.00	\$0.00	\$9.74		\$14.4 / Cuyd	\$0.00		\$1.440.00
	Hauling, LCY, no loading, 12 CY dump truck, slockpile of site	100	Cuyd	\$4.66		\$0.00	\$0.00	\$9.74	\$974.00	\$14.4 / Cuyd	\$0.00	\$0.00	\$1,440.00
	Hauling, LCY, no loading, 12 c.y. dump truck, 20 MI RT, 0.4 lds/hr	100	Cuyd	\$7.18		\$3.00	\$300.00	\$15.45		\$25.63 / Cuyd	\$0.00	*	\$2,562.64
	Loading Trucks, F.E. Loader, 3 C.Y, stockpile	100	Cuyd	\$0.74		\$0.00	\$0.00	\$1.24	\$124.00	\$1.98 / Cuyd	\$0.00	\$0.00	\$198.00
	Loading Trucks, F.E. Loader, 3 C.Y	100	Cuyd	\$0.74	\$74.00	\$0.00	\$0.00	\$1.24	\$124.00	\$1.98 / Cuyd	\$0.00	\$0.00	\$198.00
	Loading Trucks, F.E. Loader, 3 C.Y, clear & grub	100	Cuyd	\$0.74	\$74.00	\$0.00	\$0.00	\$1.24	\$124.00	\$1.98 / Cuyd	\$0.00	\$0.00	\$198.00
02470 -	Soil stabilization												
	Soil stabilization, geotextile fabric, woven, H.D., 600 lb. tensile st	400	Sqyd	\$0.32	\$128.00	\$1.85	\$740.00	\$0.00	\$0.00	\$2.17 / Sqyd	\$0.00	\$0.00	\$868.00
00.400	Din you												
02480 -	Rip-rap  Rip-rap, gabions, galv steel mesh boxes, stone filled, 36" deep	100	Cuyd	\$49.95	\$4,995.00	\$60.56	\$6,056.00	\$16.44	\$1,644.00	\$126.95 / Cuyd	\$0.00	\$0.00	\$12,695.00
	inip-rap, gabions, gaiv steel mesh boxes, stone illieu, 36 deep	100	Cuya	φ49.95	φ <del>4</del> ,995.00	φυυ.56	φο,υσό.υυ	φ10.44	φ1,0 <del>44</del> .00	φ120.93 / Cuya	φ0.00	φυ.00	Φ1∠,095.00
02490 -	Erosion control												
00	Erosion control allowance:	1	Lsum	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$2614 / Lsum	\$0.00	\$2,614.00	\$2,614.00
				,.,,,			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		,		. ,
02600 -	Base course							_					
	Base course, large areas, crushed 3/4" stone, compacted to 12"	400	Sqyd	\$0.87	\$348.00	\$10.76	\$4,304.00	\$1.11	\$444.00	\$12.74 / Sqyd	\$0.00	\$0.00	\$5,096.00

Item	Item Description	Quantity	Unit	Labor \$/Unit	Labor Amount	Materials \$/Unit	Materials Amount	Equip \$/Unit	Equip Amount	Total \$/Unit	Subs Amount	Other Amount	Grand Total
02610 -	Asphalt concrete pavement												
	Asphaltic conc pavement, pavement replacement over trench, 4" thick	15	Sqyd	\$35.00	\$525.00	\$18.00	\$270.00	\$2.98	\$44.70	\$55.98 / Sqyd	\$0.00	\$0.00	\$839.7
	SITE CONSTRUCTION Total				\$9,577.85		\$12,756.90		\$7,036.84		\$0.00	\$3,139.00	\$32,510.59
03 - CO	NCRETE												
03150	- Concrete, ready mix												
	Headwall, inlet	10	Cuyd	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$1000 / Cuyd	\$0.00	\$10,000.00	\$10,000.0
	6'x7' RCB Culvert	108	Cuyd	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$1000 / Cuyd	\$0.00	\$108,000.00	\$108,000.0
	4.3'x5.7' RCB Culvert	27	Cuyd	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$1000 / Cuyd	\$0.00	\$27,000.00	\$27,000.0
	Culvert, outlet	12	Cuyd	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$1000 / Cuyd	\$0.00	\$12,000.00	\$12,000.0
	CONCRETE Total				\$0.00		\$0.00		\$0.00		\$0.00	\$157,000.00	\$157,000.00
									, , , , ,		, , , , ,		,
	Project BP Total				\$9,577.85		\$12,756.90		\$8,896.84			\$160,139.00	\$191,370.59
	Grand Total				\$9,577.85		\$12,756.90		\$8,896.84		\$0.00	\$160,139.00	\$191,370.5

Category	Percent	Amount
Labor	0.81%	\$9,578
Material	1.08%	\$12,757
Equipment	0.75%	\$8,897
Subcontractor	0.00%	\$0
Other	13.59%	\$160,139
Net Costs		\$191,371
Labor Mark-up	18.00%	\$1,724
Material Mark-up	15.00%	\$1,914
Subcontractor Mark-up	5.00%	\$0
Equipment Mark-up	15.00%	\$1,335
Sales tax (material)	7.75%	\$989
Sales tax (equipment)	7.75%	\$690
Material Shipping & Handling	2.50%	\$319
Worker's Travel/Subsistence	0.10%	\$10
Subtotal		\$198,349
Contractor General Conditions	12.00%	\$23,802
Subtotal		\$222,151
Earthquake Insurance	0.10%	\$222
Subtotal		\$222,373
Construction Contingency	25.00%	\$55,593
Subtotal		\$277,967
Bldg Risk, Liability Auto Ins.	2.00%	\$5,559
Subtotal		\$283,526
Performance Bond	1.00%	\$2,835
Payment Bond	1.00%	\$2,835
Subtotal		\$289,197
Engineering Fee	10.00%	\$19,137
Environmental Permitting (Lump Sum)	-	\$17,000
Total Estimate		\$325,334



Project Number:: 128290

Client:: City of Carlsbad

Estimator(s):: SB / DG

Estimating Office:: Walnut Creek

Estimate Issue Number:: 01

Estimate Original Issue Date:: 11/14/2005

Estimate Revision Number:: 04

Estimate Revision Date:: 6/27/2008

BC Project Manager:: Chris Herencia
Estimate QA/QC Reviewer:: Butch Matthews

Estimate QA/QC Date:: 6/27/2008

PROJECT LOCATION / PROCESS AREA

Project BQ - Located in Basin B

Item	Item Description	Quantity	Unit	Labor \$/Unit	Labor Amount	Materials \$/Unit	Materials Amount	Equip \$/Unit	Equip Amount	Total \$/Unit	Subs Amount	Other Amount	Grand Total
Project E	BQ												
02 - SIT	E CONSTRUCTION												
02 - 311	Leonstroction												
02210 -	Clear and grub												
	Clear & grub, brush, including stumps	0.29	Acre	\$1,759.00	\$510.11	\$0.00	\$0.00	\$3,686.00	\$1,068.94	\$5445 / Acre	\$0.00	\$0.00	\$1,579.05
02310 -	Fine grade Fine grade, grade subgrade for base course, roadways	1067	Savd	\$0.26	\$277.42	\$0.00	\$0.00	\$0.21	\$224.07	\$0.47 / Sqyd	\$0.00	\$0.00	\$501.49
	Fine grade, grade subgrade for base course, roadways	1067	Sqya	\$0.26	\$211.42	\$0.00	\$0.00	\$0.21	\$224.07	\$0.47 / Sqya	\$0.00	\$0.00	\$501.49
02330 -	Backfill, structural												
	Backfill, from stockpile	140	Cuyd	\$0.60	\$84.00	\$0.00	\$0.00	\$0.40	\$56.00	\$1 / Cuyd	\$0.00	\$0.00	\$140.00
			-							-			
02360 -	Compaction		_								1		<u>,</u>
	Compaction, walk behind, vibrating pl 18" wide, 12" lifts, 4 passes	3465	Cuyd	\$1.90	\$6,583.50	\$0.00	\$0.00	\$0.51	\$1,767.15	\$2.41 / Cuyd			\$8,350.65
	Compaction, walk behind, vibrating pl 18" w, 12" lifts, 4 passes,	119	Cuyd	\$1.90	\$226.10	\$0.00	\$0.00	\$0.51	\$60.69	\$2.41 / Cuyd	\$0.00	\$0.00	\$286.79
02420 -	Excavating, structural												
02 120	Excavating, structural, mach excav, com earth, hyd backhoe, 2 CY	550	Cuyd	\$5.28	\$2,904.00	\$0.00	\$0.00	\$6.70	\$3,685.00	\$11.98 / Cuyd	\$0.00	\$0.00	\$6,589.00
	g												
02460 -	Hauling												
	Disposal fee	20	Trk	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00		\$105 / Trk			\$2,100.00
	Hauling, LCY, no loading, 12 CY dump truck, stockpile on site Hauling, LCY, no loading, 12 CY dump truck, clear & grub	140 237	Cuyd	\$4.66 \$4.66	\$652.40 \$1,104.42	\$0.00 \$0.00	\$0.00 \$0.00	\$9.74 \$9.74	* /	\$14.4 / Cuyd \$14.4 / Cuyd		****	\$2,016.00 \$3,412.80
	Hauling, LCY, no loading, 12 CY dump truck, clear & grub  Hauling, LCY, no loading, 12 c.y. dump truck, 20 MI RT, 0.4 lds/hr	616	Cuyd Cuyd	\$4.66 \$7.18	\$1,104.42	\$3.00	\$1,848.00	\$9.74 \$15.45		\$14.4 / Cuyd \$25.63 / Cuyd			\$3,412.80 \$15,785.88
	Loading Trucks, F.E. Loader, 3 C.Y., stockpile	140	Cuyd	\$0.74	\$103.60	\$0.00	\$0.00	\$1.24		\$1.98 / Cuyd			\$277.20
	Loading Trucks, F.E. Loader, 3 C.Y	616	Cuyd	\$0.74	\$455.84	\$0.00	\$0.00	\$1.24	\$763.84	\$1.98 / Cuyd			\$1,219.68
	Loading Trucks, F.E. Loader, 3 C.Y, clear & grub	237	Cuyd	\$0.74	\$175.38	\$0.00	\$0.00	\$1.24	\$293.88	\$1.98 / Cuyd	\$0.00	\$0.00	\$469.26
02470 -	Soil stabilization												
	Soil stabilization, geotextile fabric, woven, H.D., 600 lb. tensile st	290	Sqyd	\$0.32	\$92.80	\$1.85	\$536.50	\$0.00	\$0.00	\$2.17 / Sqyd	\$0.00	\$0.00	\$629.30
02480 -	Rip-rap												
02 100	Rip-rap, gabions, galv steel mesh boxes, stone filled, 36" deep	100	Cuyd	\$49.95	\$4,995.00	\$60.56	\$6,056.00	\$16.44	\$1.644.00	\$126.95 / Cuyd	\$0.00	\$0.00	\$12,695.00
	1 -1, 3 , 3		,-		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	*	7 - 7 - 1 - 1	, -	* /-	<u> </u>	*	***	, , , , , , , , , , , , ,
02490 -	Erosion control												
	Erosion control allowance:	1	Lsum	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$2614 / Lsum	\$0.00	\$2,614.00	\$2,614.00
00000	Dana samura												
02000 -	Base course Base course, large areas, crushed 3/4" stone, compacted to 12"	667	Sgyd	\$0.87	\$580.29	\$10.76	\$7,176.92	\$1.11	\$740.37	\$12.74 / Sqyd	\$0.00	\$0.00	\$8,497.58
	Dase course, rarge areas, crusineu 3/4 storie, compacteu to 12	007	Эчуи	ψυ.07	φ500.29	φ10.76	φι,110.92	ψ1.11	φ140.31	ψ12.747 Sqyu	φ0.00	φυ.υυ	φυ,497.30
	SITE CONSTRUCTION Total				\$23,167.74		\$15,617.42		\$23,664.52		\$0.00	\$4,714.00	\$67,163.68
	Project BQ Total				\$23,167.74		\$15,617.42		\$23,664.52		\$0.00	\$4,714.00	\$67,163.68
	Grand Total				\$23,167,74		\$15.617.42		\$23.664.52		\$0.00	\$4.714.00	\$67,163,68
	Granu Total		ļ		\$23,107.74		\$15,017.42		\$∠3,004.5∠		\$0.00	\$4,714.00	\$01,103.08

Category	Percent	Amount
Labor	1.97%	\$23,168
Material	1.33%	\$15,617
Equipment	2.01%	\$23,665
Subcontractor	0.00%	\$0
Other	0.40%	\$4,714
Net Costs		\$67,164
Labor Mark-up	18.00%	\$4,170
Material Mark-up	15.00%	\$2,343
Subcontractor Mark-up	5.00%	\$0
Equipment Mark-up	15.00%	\$3,550
Sales tax (material)	7.75%	\$1,210
Sales tax (equipment)	7.75%	\$1,834
Material Shipping & Handling	2.50%	\$390
Worker's Travel/Subsistence	0.10%	\$23
Subtotal		\$80,684
Contractor General Conditions	12.00%	\$9,682
Subtotal		\$90,366
Earthquake Insurance	0.10%	\$90
Subtotal		\$90,457
Construction Contingency	25.00%	\$22,614
Subtotal		\$113,071
Bldg Risk, Liability Auto Ins.	2.00%	\$2,261
Subtotal		\$115,332
Performance Bond	1.00%	\$1,153
Payment Bond	1.00%	\$1,153
Subtotal		\$117,639
Engineering Fee	10.00%	\$6,716
Environmental Permitting (Lump Sum)	-	\$7,000
Total Estimate		\$131,355



Project Number:: 128290

Client:: City of Carlsbad

Estimator(s):: DO / DG

Estimating Office:: Walnut Creek

Estimate Issue Number:: 01

Estimate Original Issue Date:: 11/5/2007

Estimate Revision Number:: 04

Estimate Revision Date:: 6/27/2008

BC Project Manager:: Chris Herencia
Estimate QA/QC Reviewer:: Butch Matthews

Estimate QA/QC Date:: 6/27/2008

PROJECT LOCATION / PROCESS AREA

Project BR - Located in Basin B

Item	Item Description	Quantity	Unit	Labor \$/Unit	Labor Amount	Materials \$/Unit	Materials Amount	Equip \$/Unit	Equip Amount	Total \$/Unit	Subs Amount	Other Amount	Grand Total
Project E	SR .												
02 - SIT	CONSTRUCTION												
02 - 311	CONSTRUCTION												
02320 -	Backfill												
	Backfill, dozer backfilling, trench, up to 300' haul, no compaction	127	Cuyd	\$0.80	\$101.60	\$0.00	\$0.00	\$1.28	\$162.56	\$2.08 / Cuyd	\$0.00	\$0.00	\$264.16
02340 -	Bedding												
	Bedding, crushed stone 3/4" to 1/2"	28	Cuyd	\$8.47	\$237.16	\$32.03	\$896.84	\$1.89	\$52.92	\$42.39 / Cuyd	\$0.00	\$0.00	\$1,186.92
	Backing Material, 200 Lb	21	Cuyd	\$17.00	\$357.00	\$60.00	\$1,260.00	\$20.00	\$420.00	\$97 / Cuyd	\$0.00	\$0.00	\$2,037.00
02350 -	Borrw,ldng and/or sprdng												
	Borrow, bank measure, select granular fill, shovel, 1.5 CY bucket. 1/4	380	Cuyd	\$1.25	\$475.00	\$13.25	\$5,035.00	\$3.20	\$1,216.00	\$17.7 / Cuyd	\$0.00	\$0.00	\$6,726.00
20000													
02360 -	Compaction Compaction, vibratory plate, 8" lifts, common fill	423	Cuyd	\$1.90	\$803.70	\$0.00	\$0.00	\$0.51	\$215.73	\$2.41 / Cuyd	\$0.00	\$0.00	\$1,019.43
	Compaction, vibratory plate, 8" lifts, select fill, bedding	32	Cuyd	\$1.90	\$60.80	\$0.00	\$0.00	\$0.51	\$16.32	\$2.41 / Cuyd			\$77.12
	, , , , , , , , , , , , , , , , , , , ,		,	,	*	,	¥	*	, , ,	, , , , , , , , , , , , , , , , , , , ,		, , , , ,	· ·
02450 -	Excavating, trench												
	Excavate trench, no sht or dewtrg, 4'-6' D, 1-1/2 CY hyd bac	106	Cuyd	\$1.95	\$206.70	\$0.00	\$0.00	\$1.42	\$150.52	\$3.37 / Cuyd	\$0.00	\$0.00	\$357.22
02470 -	L Soil stabilization												
02 0	Soil stabilization, geotextile fabric, woven, H.D., 600 lb. tensile st	53	Sqyd	\$0.32	\$16.96	\$1.85	\$98.05	\$0.00	\$0.00	\$2.17 / Sqyd	\$0.00	\$0.00	\$115.01
00.400													
02480 -	Rip-rap Rip-rap, machine placed for slope prot, 3/8 to 1/4 CY pieces	52	Cuyd	\$37.46	\$1,947.92	\$49.55	\$2.576.60	\$12.33	\$641.16	\$99.34 / Cuyd	\$0.00	\$0.00	\$5,165.68
	Tap rap, madimio piadou foi diopo prot, dio to 17 1 0 1 piedoc		Cuju	ψοτιτο	\$1,011.02	ψ.ιο.σσ	Ψ2,010.00	ψ.2.00	ψ011110	φου.στ <i>γ</i> σαγα	\$0.00	ψ0.00	ψο, . σσ.σσ
02610 -	Asphltc concrete pavement												
	Asphaltic conc pavement, pavement replacement over trench, 6"	267	Sqyd	\$44.54	\$11,892.18	\$27.00	\$7,209.00	\$3.79	\$1,011.93	\$75.33 / Sqyd	\$0.00	\$0.00	\$20,113.11
	SITE CONSTRUCTION Total				\$16,099.02		\$17,075.49		\$3,887.14		\$0.00	\$0.00	\$37,061.65
03 - CO	 NCRETE												
00 00.													
03110 -	Forms in place, walls												
	Concrete Structure (Conceptual) Headwall	18	Cuyd	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00		\$1000 / Cuyd			\$18,000.00
	Concrete Structure (Conceptual) Open Baffle Box	1	Cuyd	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$1000 / Cuyd	\$0.00	\$7,000.00	\$7,000.00
	CONCRETE Total				\$0.00		\$0.00		\$0.00		\$0.00	\$25,000.00	\$25,000.00
_	CHANICAL  Pina dragg powers consist												
15090 -	Pipe,drng&sewage,concret Piping, drainage & sewage, RCP, class 3, no gaskets, 66" dia	150	Lnft	\$71.46	\$10,719.00	\$250.00	\$37,500.00	\$7.09	\$1,063.50	\$328.55 / Lnft	\$0.00	\$0.00	\$49,282,50
	- pg, diamage a comage, item, alace of the gashete, or the	130	Lint	Ψ11.40	ψ10,113.00	Ψ2.00.00	ψυν,300.00	Ψ1.09	ψ1,000.30	ψ020.00 / LIIII	Ψ0.00	ψ0.00	ψ-10,202.00
	MECHANICAL Total				\$10,719.00		\$37,500.00		\$1,063.50		\$0.00	\$0.00	\$49,282.50
	Project BR Total				\$26,128.37		\$39,217.18		\$7,685.21		\$0.00	\$21,250.00	\$94,280.76
	·										4		
	Grand Total				\$26,128.37		\$39,217.18		\$7,685.21		\$0.00	\$21,250.00	\$94,280.76

Category	Percent	Amount
Labor	2.22%	\$26,128
Material	3.33%	\$39,217
Equipment	0.65%	\$7,685
Subcontractor	0.00%	\$0
Other	1.80%	\$21,250
Net Costs		\$94,281
Labor Mark-up	18.00%	\$4,703
Material Mark-up	15.00%	\$5,883
Subcontractor Mark-up	5.00%	\$0
Equipment Mark-up	15.00%	\$1,153
Sales tax (material)	7.75%	\$3,039
Sales tax (equipment)	7.75%	\$596
Material Shipping & Handling	2.50%	\$980
Worker's Travel/Subsistence	0.10%	\$26
Subtotal		\$110,661
Contractor General Conditions	12.00%	\$13,279
Subtotal		\$123,940
Earthquake Insurance	0.10%	\$124
Subtotal		\$124,064
Construction Contingency	25.00%	\$31,016
Subtotal		\$155,080
Bldg Risk, Liability Auto Ins.	2.00%	\$3,102
Subtotal		\$158,182
Performance Bond	1.00%	\$1,582
Payment Bond	1.00%	\$1,582
Subtotal		\$161,345
Engineering Fee	10.00%	\$9,428
Environmental Permitting (Lump Sum)	-	\$10,000
Total Estimate		\$180,773



Project Number:: 128290

Client:: City of Carlsbad

Estimator(s):: SB / DG

Estimating Office:: Walnut Creek

Estimate Issue Number:: 01

Estimate Original Issue Date:: 5/15/2006

Estimate Revision Number:: 04

Estimate Revision Date:: 6/27/2008

BC Project Manager:: Chris Herencia Estimate QA/QC Reviewer:: Bob Ferguson

Estimate QA/QC Date:: 6/27/2008

PROJECT LOCATION / PROCESS AREA

Project C1 - Located in Basin C

Item	Item Description	Quantity	Unit	Labor \$/Unit	Labor Amount	Materials \$/Unit	Materials Amount	Equip \$/Unit	Equip Amount	Total \$/Unit	Subs Amount	Other Amount	Grand Total
Project (	01												
01 CE	NERAL REQUIREMENTS												
UI - GE	NERAL REQUIREMENTS												
01210 -	Lifting and hoisting equi												
0.12.10	Rent crane truck mounted, hydraulic, 55 ton	45	Day	\$0.00	\$0.00	\$0.00	\$0.00	\$990.00	\$44.550.00	\$41562 / Day	\$40,572.00	\$0.00	\$85,122.0
	, , , , , , , , , , , , , , , , , , , ,		- 7	,	***	•	*****	*	* /		,.	,	*,
02 - SIT	E CONSTRUCTION												
02060	- Site demolition												
	Site dml, conc7" to 24" thick, rod reinforced	93	,	\$92.56	\$8,608.08	\$0.00	\$0.00	\$61.09		\$153.65 / Cuyd		\$0.00	\$14,289.4
	Hauling, LCY, no loading, 20 c.y. dump truck, 30 MI RT, 0.33 lds/hr	309	,	\$5.95	\$1,838.55	\$0.00	\$0.00	\$10.40	\$3,213.60			\$0.00	\$5,052.1
	Loading Trucks, F.E. Loader, 3 C.Y	309		\$0.74	\$228.66	\$0.00	\$0.00	\$1.24	\$383.16				\$611.8
	Disposal fee	20	Trk	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$105 / Trk	\$0.00	\$2,100.00	\$2,100.0
20000	01 4 77												
02280 -	Sheet piling	0.700	0	C4 4 00	<b>#07.004.00</b>	644.44	<b>#20.007.00</b>	<b>040.00</b>	<b>#00.000.00</b>	#00.04 / C **	<b>#</b> 0.00	<b>#0.00</b>	#07.000 °
	Sheet piling, steel, no wales, 15' excav., drive, extract & salvage	2,700	Sqft	\$14.03	\$37,881.00	\$11.41	\$30,807.00	\$10.60	\$28,620.00	\$36.04 / Sqft	\$0.00	\$0.00	\$97,308.0
02320 -	Packfill												
02320 -	Backfill Backfill, dozer backfilling, trench, up to 300' haul, no compaction	186	Cuyd	\$0.80	\$148.80	\$0.00	\$0.00	\$1.28	\$238.08	\$2.08 / Cuyd	\$0.00	\$0.00	\$386.8
	Dackini, dozer backining, irencii, up to 300 flaui, flo compaction	100	Cuyu	ψυ.ου	φ140.8U	φυ.υυ	φυ.υυ	φ1.∠8	φ <b>∠</b> 30.08	φ∠.∪o / Cuyu	φυ.υυ	φυ.υυ	φ300.δ
02340 -	Bedding												
02010	Bedding, crushed stone 3/4" to 1/2"	63	Cuyd	\$8.47	\$533.61	\$32.03	\$2,017.89	\$1.89	\$119.07	\$42.39 / Cuyd	\$0.00	\$0.00	\$2,670.5
	Bedding, Gradied stone 6/4 to 1/2	00	Ouyu	ψ0.+1	ψοσο.σ τ	Ψ02.00	Ψ2,017.00	ψ1.00	ψ110.01	ψ+2.007 Odyd	ψ0.00	Ψ0.00	Ψ2,070.0
02360 -	Compaction												
	Compaction, walk behind, vibrating plate 18" wide, subgrade	63	Cuyd	\$1.90	\$119.70	\$0.00	\$0.00	\$0.51	\$32.13	\$2.41 / Cuyd	\$0.00	\$0.00	\$151.8
	Compaction, walk behind, vibrating plate 18" wide, bedding	63	Cuyd	\$1.90	\$119.70	\$0.00	\$0.00	\$0.51	\$32.13	\$2.41 / Cuyd	\$0.00	\$0.00	\$151.8
	Compaction, walk behind, vibrating plate 18" wide, backfill	186	Cuyd	\$1.90	\$353.40	\$0.00	\$0.00	\$0.51	\$94.86	\$2.41 / Cuyd	\$0.00	\$0.00	\$448.2
	Compaction, riding, vibrating roller, 6" lifts, fill	9,827	Cuyd	\$2.93	\$28,793.11	\$0.00	\$0.00	\$0.78	\$7,665.06	\$3.71 / Cuyd	\$0.00	\$0.00	\$36,458.1
02420 -	Excavating, structural												
	Excavating, structural, mach excav, com earth, hyd backhoe, 2 CY bkt	309	Cuyd	\$5.28	\$1,631.52	\$0.00	\$0.00	\$6.70	\$2,070.30	\$11.98 / Cuyd	\$0.00	\$0.00	\$3,701.8
02430 -				**	<b>^-</b>					******			
	Fill, spread dumped material, by dozer, no compaction	9,827	,	\$0.72	\$7,075.44	\$0.00	\$0.00	\$1.15	\$11,301.05			\$0.00	\$18,376.4
	Fill, spread dumped material, by dozer, no compaction, berm  Granular fill	74 9,827	,	\$0.72 \$0.00	\$53.28 \$0.00	\$0.00 \$10.06	\$0.00 \$98,859.62	\$1.15 \$0.00	\$85.10 \$0.00			\$0.00 \$0.00	\$138.3 \$98,859.6
	Granular fill, berm	9,827	Cuyd Cuyd	\$0.00	\$0.00	\$10.06	\$1,260.96	\$0.00	\$0.00				\$1,260.9
	Oranida IIII, Dellii	74	Cuyu	φυ.υυ	φ0.00	φ17.04	ψ1,200.90	φυ.00	φ0.00	ψ17.047 Cuyu	φ0.00	φυ.υυ	φ1,200.9
02460 -	l Hauling												
00	Hauling, LCY, no loading, 20 c.y. dump truck, 30 MI RT, 0.33 lds/hr	309	Cuyd	\$5.95	\$1,838.55	\$0.00	\$0.00	\$10.40	\$3,213.60	\$16.35 / Cuyd	\$0.00	\$0.00	\$5,052.1
	Loading Trucks, F.E. Loader, 3 C.Y	309	,	\$0.74	\$228.66	\$0.00	\$0.00	\$1.24	\$383.16			\$0.00	\$611.8
	Disposal fee	20	Trk	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$105 / Trk	\$0.00	\$2,100.00	\$2,100.0
	Hauling, LCY, no loading, 20 c.y dump truck, 30 MI RT, 0.33 lds/hr, concrete	93		\$5.68	\$528.24	\$0.00	\$0.00	\$9.92	\$923.00			\$0.00	\$1,451.2
	Loading Trucks, F.E. Loader, 3 C.Y., concrete	93	Cuyd	\$0.74	\$68.82	\$0.00	\$0.00	\$1.24	\$115.32	\$1.98 / Cuyd	\$0.00	\$0.00	\$184.1
02480 -	Rip-rap	,								-			-
	Rip-rap, mach placed for slp protec, 18" min thick. not grouted	1,334	Sqyd	\$56.55	\$75,437.70	\$49.55	\$66,099.70	\$12.33	\$16,448.22	\$118.43 / Sqyd	\$0.00	\$0.00	\$157,985.6
02600 -	Base course												
	Base course, large areas, crushed 3/4" stone, compacted to 6" deep	378	Sqyd	\$0.73	\$275.94	\$5.41	\$2,044.98	\$0.94	\$355.32	\$7.08 / Sqyd	\$0.00	\$0.00	\$2,676.2
	Lines on pav't												\$28.5
02640 -	Painting lines, thermoplastic, white or yellow, 6" wide	204	Lnft	\$0.14	\$28.56	\$0.00	\$0.00	\$0.00	\$0.00	\$0.14 / Lnft	\$0.00	\$0.00	

Item	Item Description	Quantity	Unit	Labor	Labor Amount	Materials	Materials	Equip	Equip Amount	Total	Subs Amount	Other Amount	Grand
	·			\$/Unit		\$/Unit	Amount	\$/Unit		\$/Unit			Total
	Sidewlks, drivwys, & patios												
	Sidewalks, conc, 3000 PSI, CIP w/ 6x6 mesh, broom fin, no basem 4" T	544	Sqft	\$2.01	\$1,093.44	\$1.45	\$788.80	\$0.00	\$0.00	\$3.46 / Sqft			\$1,882.24
	Sidewalks, conc, 3000 PSI, for bank run gravel base, 4" thick, add	544	Sqft	\$0.47	\$255.68	\$0.42	\$228.48	\$0.04	\$21.76	\$0.93 / Sqft	\$0.00	\$0.00	\$505.92
02840 -	Landscaping												
	Erosion Control Allowance:::	1	Lsum	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$30000 / Lsum	\$0.00	\$30,000.00	\$30,000.00
	Landscaping Allowance::	1	Lsum	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$30000 / Lsum	\$0.00	\$30,000.00	\$30,000.00
	Traffic Control Allowance	1	Lsum	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$30000 / Lsum	\$0.00	\$30,000.00	\$30,000.00
	SITE CONSTRUCTION Total				\$167,140.44		\$202,107.43		\$125,546.29		\$40,572.00	\$94,200.00	\$629,566.16
02 CO	NCRETE												
03 - 001	VCRETE												
	Concrete, ready mix												
	5-12'x12' RCB Culverts	403	Cuyd	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$1000 / Cuyd		\$403,000.00	\$403,000.00
	Headwall, inlet	21	Cuyd	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$1000 / Cuyd		\$21,000.00	\$21,000.00
	Headwall, outlet	28	Cuyd	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$1000 / Cuyd	\$0.00		\$28,000.00
	Wall, bridge	163	Cuyd	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$1000 / Cuyd			\$163,000.00
	Footing	10	Cuyd	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$1000 / Cuyd	\$0.00	\$10,000.00	\$10,000.00
	Elevated slab	28	Cuyd	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$1000 / Cuyd		\$28,000.00	\$28,000.00
	Wingwall	1	Lsum	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$154850 / Lsum	\$0.00	\$154,850.00	\$154,850.00
	Slab on Grade	28	Cuyd	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$1000 / Cuyd	\$0.00	\$28,000.00	\$28,000.00
	Slab on Grade for roadway	202	Cuyd	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$1000 / Cuyd	\$0.00	\$202,000.00	\$202,000.00
	CONCRETE Total				\$0.00		\$0.00		\$0.00		\$0.00	\$1,037,850.00	\$1,037,850.00
	CONCRETE TOTAL				φυ.υυ		\$0.00		φυ.υυ		\$0.00	\$1,037,630.00	\$1,037,630.00
05 - ME	TALS												
05080 -	Railings, industrial												
	Railing, pipe, aluminum, 3 rail, clear anodized	272	Lnft	\$15.67	\$4,262.24	\$45.95	\$12,498.40	\$0.96	\$261.12	\$81.58 / Lnft	\$0.00	\$5,168.00	\$22,189.76
	G. T.			·		·				-			
	METALS Total				\$4,262.24		\$12,498.40		\$261.12		\$0.00	\$5,168.00	\$22,189.76
07 - THE	ERMAL/MOIST PROTECTION												
07100 -	 Building paper												
	Building paper, polyethylene vapor barrier, std, .010" thick, berm	28	Cuyd	\$10.95	\$306.60	\$5.35	\$149.80	\$0.00	\$0.00	\$16.3 / Cuyd	\$0.00	\$0.00	\$456.40
	THERMAL/MOIST PROTECTION Total				\$306.60		\$149.80		\$0.00		\$0.00	\$0.00	\$456.40
							,		<b>,</b>		70.00	,	
	Project C1 Total				\$167,140.44		\$202,107.43		\$125,546.29		\$40,572.00	\$1,132,050.00	\$1,690,062.32
	Grand Total				\$167,140.44		\$202,107.43		\$125,546.29		\$40,572.00	\$1,132,050.00	\$1,667,416.16

Category	Percent	Amount
Labor	10.02%	\$167,140
Material	12.12%	\$202,107
Equipment	7.53%	\$125,546
Subcontractor	2.43%	\$40,572
Other	67.89%	\$1,132,050
Net Costs		\$1,667,416
Labor Mark-up	18.00%	\$30,085
Material Mark-up	15.00%	\$30,316
Subcontractor Mark-up	5.00%	\$2,029
Equipment Mark-up	15.00%	\$18,832
Sales tax (material)	7.75%	\$15,663
Sales tax (equipment)	7.75%	\$9,730
Material Shipping & Handling	2.50%	\$5,053
Worker's Travel/Subsistence	0.10%	\$167
Subtotal		\$1,779,291
Contractor General Conditions	12.00%	\$213,515
Subtotal		\$1,992,806
Earthquake Insurance	0.10%	\$1,993
Subtotal		\$1,994,799
Construction Contingency	35.00%	\$698,180
Subtotal		\$2,692,978
Bldg Risk, Liability Auto Ins.	2.00%	\$53,860
Subtotal		\$2,746,838
Performance Bond	1.00%	\$27,468
Payment Bond	1.00%	\$27,468
Subtotal		\$2,801,775
Engineering Fee	10.00%	\$166,742
Environ Permitting/Monitoring (L.S.)	-	\$550,000
Total Estimate		\$3,518,516



Project Number:: 128290

Client:: City of Carlsbad

Estimator(s):: JW / DG

Estimating Office:: Walnut Creek

Estimate Issue Number:: 01

Estimate Original Issue Date:: 3/14/2006

Estimate Revision Number:: 04

Estimate Revision Date:: 6/27/2008
BC Project Manager:: Chris Herencia
Estimate QA/QC Reviewer:: Butch Matthews

Estimate QA/QC Date:: 6/27/2008

PROJECT LOCATION / PROCESS AREA

Project C2 - Located in Basin C

Item	Item Description	Quantity	Unit	Labor \$/Unit	Labor Amount	Materials \$/Unit	Materials Amount	Equip \$/Unit	Equip Amount	Total \$/Unit	Subs Amount	Other Amount	Grand Total
Project (	C2												
02 - SIT	E CONSTRUCTION												
02060	- Site demolition												
02000	Site dml, conc7" to 24" thick, rod reinforced	10	Cuyd	\$92.56	\$925.60	\$0.00	\$0.00	\$61.09	\$610.90	\$153.65 / Cuyd	\$0.00	\$0.00	\$1,536.50
	Hauling, LCY, no loading, 20 c.y. dump truck, 30 MI RT, 0.33 lds/hr	10	Cuyd	\$5.95	\$59.50	\$0.00	\$0.00	\$10.40	\$104.00				\$163.50
	Loading Trucks, F.E. Loader, 3 C.Y	10	Cuyd	\$0.74	\$7.40	\$0.00	\$0.00	\$1.24	\$12.40				\$19.80
	Disposal fee	1	Ťrk	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$105 / Trk		\$105.00	\$105.00
02280 -	Sheet piling												
	Sheet piling, steel, no wales, 15' excav., drive, extract & salvage	1,500	Sqft	\$14.03	\$21,045.00	\$11.41	\$17,115.00	\$10.60	\$15,900.00	\$36.04 / Sqft	\$0.00	\$0.00	\$54,060.00
20000	0.15%												
02320 -		247	Cunsal	<b>CO 00</b>	<b>#077.00</b>	<b>PO 00</b>	\$0.00	\$1,28	\$444.4C	#2.00 / Cd	\$0.00	\$0.00	<b>€704.7</b> 0
	Backfill, dozer backfilling, trench, up to 300' haul, no compaction	347	Cuyd	\$0.80	\$277.60	\$0.00	\$0.00	\$1.28	\$444.16	\$2.08 / Cuyd	\$0.00	\$0.00	\$721.76
02340 -	Bedding												
02340 -	Bedding, crushed stone 3/4" to 1/2"	52	Cuyd	\$8.47	\$440.44	\$32.03	\$1,665.56	\$1.89	\$98,28	\$42.39 / Cuyd	\$0.00	\$0.00	\$2,204.28
02360 -	Compaction	02	Cuju	ψοιιι	<b>\$1.10.11</b>	<b>\$02.00</b>	<b>\$1,000.00</b>	ψ1.00	<b>\$60.20</b>	ψ.2.00 / Ouyu	ψ0.00	ψ0.00	Ψ2,20 H20
	Compaction, walk behind, vibrating plate 18" wide, subgrade	33	Cuyd	\$1.90	\$62.70	\$0.00	\$0.00	\$0.51	\$16.83	\$2.41 / Cuyd	\$0.00	\$0.00	\$79.53
	Compaction, walk behind, vibrating plate 18" wide, bedding	65	Cuyd	\$1.90	\$123.50	\$0.00	\$0.00	\$0.51	\$33.15	\$2.41 / Cuyd	\$0.00	\$0.00	\$156.65
	Compaction, walk behind, vibrating plate 18" wide, backfill	347	Cuyd	\$1.90	\$659.30	\$0.00	\$0.00	\$0.51	\$176.97	\$2.41 / Cuyd	\$0.00	\$0.00	\$836.27
02420 -	Excavating, structural									******			
	Excavating, structural, mach excav, com earth, hyd backhoe, 1-1/2 CY b	640	Cuyd	\$7.33	\$4,691.20	\$0.00	\$0.00	\$5.34	\$3,417.60	\$12.67 / Cuyd	\$0.00	\$0.00	\$8,108.80
02460	Hauling												
02400 -	Hauling, LCY, no loading, 20 c.y. dump truck, 30 MI RT, 0.33 lds/hr	293	Cuvd	\$5.95	\$1.743.35	\$0.00	\$0.00	\$10.40	\$3.047.20	\$16.35 / Cuyd	\$0.00	\$0.00	\$4,790.55
	Loading Trucks, F.E. Loader, 3 C.Y	293	Cuyd	\$0.74	\$216.82	\$0.00	\$0.00	\$10.40	\$3,047.20	\$1.98 / Cuyd			\$580.14
	Disposal fee	15	Trk	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$105 / Trk			\$1,575.00
	Stopoda 100			ψ0.00	ψ0.00	ψ0.00	ψ0.00	ψ0.00	ψ0.00	ψ1007111	ψ0.00	\$1,070.00	ψ1,070.00
02840 -	Landscaping												
	Traffic Control Allowance: 2 flaggers, 15' pipe/hr	1	Lsum	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$4878 / Lsum	\$0.00	\$4,878.00	\$4,878.00
	SITE CONSTRUCTION Total				\$30,252.41		\$18,780.56		\$24,224.81		\$0.00	\$6,558.00	\$79,815.78
03 - CO	NCRETE												
02150	Congreto, ready mix					+							
03150 -	Concrete, ready mix 4'x10' RCB Culvert	170	Cuyd	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$1000 / Cuyd	\$0.00	\$170,000.00	\$170,000.00
	Headwall, inlet	5	Cuyd	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$1000 / Cuyd		,	\$5,000.00
	Headwall, outlet	5	Cuyd	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$1000 / Cuyd			\$5,000.00
	***************************************	Ĭ	,-	71.00	\$3.00	<b>\$2.00</b>	\$3.00	<b>+1.00</b>	\$0.00	,, Juju	\$0.00	\$2,223.00	<b>\$2,230.00</b>
	CONCRETE Total				\$0.00		\$0.00		\$0.00		\$0.00	\$180,000.00	\$180,000.00
	Project C2 Total				\$30,252.41		\$18,780.56		\$24,224.81		\$0.00	\$186,558.00	\$259,815.78
													·
	Grand Total				\$30,252.41		\$18,780.56		\$24,224.81		\$0.00	\$186,558.00	\$259,815.78

Category	Percent	Amount
Labor	11.64%	\$30,252
Material	7.23%	\$18,781
Equipment	9.32%	\$24,225
Subcontractor	0.00%	\$0
Other	71.80%	\$186,558
Net Costs		\$259,816
Labor Mark-up	18.00%	\$5,445
Material Mark-up	15.00%	\$2,817
Subcontractor Mark-up	5.00%	\$0
Equipment Mark-up	15.00%	\$3,634
Sales tax (material)	7.75%	\$1,455
Sales tax (equipment)	7.75%	\$1,877
Material Shipping & Handling	2.50%	\$470
Worker's Travel/Subsistence	0.10%	\$30
Subtotal		\$275,545
Contractor General Conditions	12.00%	\$33,065
Subtotal		\$308,610
Earthquake Insurance	0.10%	\$309
Subtotal		\$308,919
Construction Contingency	25.00%	\$77,230
Subtotal		\$386,148
Bldg Risk, Liability Auto Ins.	2.00%	\$7,723
Subtotal		\$393,871
Performance Bond	1.00%	\$3,939
Payment Bond	1.00%	\$3,939
Subtotal		\$401,749
Engineering Fee	10.00%	\$25,982
Environ Permitting/Monitoring (L.S.)	-	\$300,000
Total Estimate		\$727,730



Project Number:: 128290

Client:: City of Carlsbad

Estimator(s):: SB / DG

Estimating Office:: Walnut Creek

Estimate Issue Number:: 01

Estimate Original Issue Date:: 11/14/2005

Estimate Revision Number:: 04

Estimate Revision Date:: 6/27/2008

BC Project Manager:: Chris Herencia
Estimate QA/QC Reviewer:: Butch Matthews

Estimate QA/QC Date:: 6/27/2008

PROJECT LOCATION / PROCESS AREA

Project CA - Located in Basin C

Item	Item Description	Quantity	Unit	Labor \$/Unit	Labor Amount	Materials \$/Unit	Materials Amount	Equip \$/Unit	Equip Amount	Total \$/Unit	Subs Amount	Other Amount	Grand Total
Project (	CA												
00 017	E CONOTRUCTION												
02 - 511	E CONSTRUCTION												
02320	- Backfill												
	Backfill, dozer backfilling, trench, up to 300' haul, no compaction	100	Cuyd	\$0.80	\$80.00	\$0.00	\$0.00	\$1.28	\$128.00	\$2.08 / Cuyd	\$0.00	\$0.00	\$208.00
02360	- Compaction	50	01	<b>#4.00</b>	<b>#05.00</b>	<b>#</b> 0.00	<b>#</b> 0.00	<b>CO 54</b>	<b>#05.50</b>	CO 44 / O	<b>#0.00</b>	<b>#0.00</b>	\$400.F0
	Compaction, walk behind, vibrating plate 18" wide, subgrade  Compaction, walk behind, vibrating plate 18" wide, bedding	50 377	Cuyd Cuyd	\$1.90 \$1.90	\$95.00 \$716.30	\$0.00 \$0.00	\$0.00 \$0.00	\$0.51 \$0.51	\$25.50 \$192.27	\$2.41 / Cuyd \$2.41 / Cuyd		\$0.00 \$0.00	\$120.50 \$908.57
	Compaction, wark berinia, vibrating plate 10 wide, beduing	311	Cuyu	ψ1.90	φ/10.50	\$0.00	φυ.υυ	ψ0.51	ψ192.21	\$2.41 / Cuyu	φ0.00	φ0.00	φ900.57
02420	- Excavating, structural												
	Excavating, structural, mach excav, com earth, hyd backhoe, 1-1/2 CY b	377	Cuyd	\$7.33	\$2,763.41	\$0.00	\$0.00	\$5.34	\$2,013.18	\$12.67 / Cuyd	\$0.00	\$0.00	\$4,776.59
00.460	Harding.												
02460	Hauling Hauling, LCY, no loading, 20 c.y. dump truck, 30 MI RT, 0.33 lds/hr	600	Cuyd	\$5.95	\$3,570.00	\$0.00	\$0.00	\$10.40	\$6,240.00	\$16.35 / Cuyd	\$0.00	\$0.00	\$9,810.00
	Loading Trucks, F.E. Loader, 3 C.Y	600	Cuyd	\$0.74	\$3,570.00	\$0.00	\$0.00	\$10.40	\$6,240.00				\$9,810.00
	25000119 110010, 1121 250000, 5 51111	000	Cuju	Ψ0	Ųoo	ψο.σσ	ψ0.00	Ψ	ψσσ	ψ1.00 / Cuju	ψο.σσ	ψο.σσ	ψ1,100.00
	SITE CONSTRUCTION Total				\$7,668.71		\$0.00		\$9,342.95		\$0.00	\$0.00	\$17,011.66
03 - CO	NCRETE												
00000	Farmer along aloh marda												
03090	Forms place, slab grade Forms in place, SOG, edge forms, over 12", wood	1,800	Sfca	\$3.99	\$7,182.00	\$0.80	\$1.440.00	\$0.00	\$0.00	\$4.79 / Sfca	\$0.00	\$0.00	\$8.622.00
	ornis in place, 300, edge fornis, over 12 , wood	1,000	Sica	ψ3.55	φ1,102.00	φ0.00	\$1,440.00	φ0.00	φυ.υυ	ψ4.797 SICa	φ0.00	φ0.00	\$0,022.00
03110	- Forms in place, walls												
	Forms in place, walls, job built plyform, to 8' high, below gr	8,400	Sfca	\$7.35	\$61,740.00	\$2.59	\$21,756.00	\$0.00	\$0.00	\$9.94 / Sfca	\$0.00	\$0.00	\$83,496.00
03140	Welded wire fabric	18	Cof	\$36.61	<b>CEO 00</b>	\$29.41	\$529.38	\$0.00	\$0.00	#CC 02 / Cal	\$0.00	\$0.00	¢4 400 20
	Welded wire fabric, 10/10 gage, SOG Welded wire fabric, 10/10 gage, Walls	18 84	Csf Csf	\$36.61	\$658.98 \$3,075.24	\$29.41	\$529.38 \$2,470.44	\$0.00	\$0.00	\$66.02 / Csf \$66.02 / Csf		*	\$1,188.36 \$5,545.68
	veided wife fabric, 10/10 gage, waiis	04	031	ψ30.01	ψ5,075.24	Ψ23.41	Ψ2,470.44	ψ0.00	Ψ0.00	ψ00.02 / C3i	ψ0.00	ψ0.00	ψ5,545.00
03150	Concrete, ready mix												
	Concrete, ready mix, regular weight, 4000 psi	300	Cuyd	\$0.00	\$0.00	\$120.00	\$36,000.00	\$0.00	\$0.00	\$120 / Cuyd	\$0.00	\$0.00	\$36,000.00
03170	Placing concrete Placing conc, incl vib, slab on grade, 6" thick, pumped	34	Cuyd	\$17.45	\$593.30	\$0.00	\$0.00	\$5.56	\$189.04	\$23.01 / Cuyd	\$0.00	\$0.00	\$782.34
	Placing conc, incl vib, slab on grade, 6 thick, pumped  Placing conc, incl vib, walls, 8" thick, pumped	160	Cuyd	\$32.28	\$5,164.80	\$0.00	\$0.00	\$10.28	\$1,644.80			*	\$6,809.60
	Tracing cond, morne, mane, or anon, pumped		Cuju	ψ02.20	ψο, το που	ψο.σσ	ψ0.00	Ų10. <u>2</u> 0	ψ1,011.00	ψ12.00 / Ouju	ψο.σσ	ψ0.00	ψ0,000.00
03180	- Finishing floors												
	Finishing slabs, break ties, forms & patch voids	1,800	Sqft	\$1.17	\$2,106.00	\$0.03	\$54.00	\$0.00	\$0.00	\$1.2 / Sqft			\$2,160.00
	Finishing floors, monolithic, machine trowel, for finish floor	1,800	Sqft	\$0.68	\$1,224.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.68 / Sqft	\$0.00	\$0.00	\$1,224.00
03100	- Finishing walls												
03190	Finishing slabs, break ties, forms & patch voids	8,400	Sqft	\$1.17	\$9,828.00	\$0.03	\$252.00	\$0.00	\$0.00	\$1.2 / Sqft	\$0.00	\$0.00	\$10,080.00
	Finishing walls, carborundum rub, wet rub	8,400	Sqft	\$2.13	\$17,892.00	\$0.03	\$252.00	\$0.00	\$0.00	\$2.16 / Sqft			\$18,144.00
										·			
	MECHANICAL Total				\$109,464.32		\$62,753.82		\$1,833.84		\$0.00	\$0.00	\$174,051.98
	Profession Treat				£447.400.00		<b>000 750 00</b>		C44 470 70		<b>#</b> 0.00	<b>#0.00</b>	£404.000.04
	Project CA Total				\$117,133.03		\$62,753.82		\$11,176.79		\$0.00	\$0.00	\$191,063.64
	Grand Total				\$117,133.03		\$62,753.82		\$11,176.79		\$0.00	\$0.00	\$191,063.64

Category	Percent	Amount
Labor	61.31%	\$117,133
Material	32.84%	\$62,754
Equipment	5.85%	\$11,177
Subcontractor	0.00%	\$0
Other	0.00%	\$0
Net Costs		\$191,064
Labor Mark-up	18.00%	\$21,084
Material Mark-up	15.00%	\$9,413
Subcontractor Mark-up	5.00%	\$0
Equipment Mark-up	15.00%	\$1,677
Sales tax (material)	7.75%	\$4,863
Sales tax (equipment)	7.75%	\$866
Material Shipping & Handling	2.50%	\$1,569
Worker's Travel/Subsistence	0.10%	\$117
Subtotal		\$230,653
Contractor General Conditions	12.00%	\$27,678
Subtotal		\$258,331
Earthquake Insurance	0.10%	\$258
Subtotal		\$258,589
Construction Contingency	25.00%	\$64,647
Subtotal		\$323,237
Bldg Risk, Liability Auto Ins.	2.00%	\$6,465
Subtotal		\$329,702
Performance Bond	1.00%	\$3,297
Payment Bond	1.00%	\$3,297
Subtotal		\$336,296
Engineering Fee	10.00%	\$19,106
Environ Permitting/Monitoring (L.S.)	-	\$174,000
Total Estimate		\$529,402



Project Number:: 128290

Client:: City of Carlsbad

Estimator(s):: JW / DG

Estimating Office:: Walnut Creek

Estimate Issue Number:: 01

Estimate Original Issue Date:: 3/14/2006

Estimate Revision Number:: 04

Estimate Revision Date:: 6/27/2008

BC Project Manager:: Chris Herencia Estimate QA/QC Reviewer:: Bob Ferguson

Estimate QA/QC Date:: 6/27/2008

PROJECT LOCATION / PROCESS AREA

Project DBA

Item	Item Description	Quantity	Unit	Labor \$/Unit	Labor Amount	Materials \$/Unit	Materials Amount	Equip \$/Unit	Equip Amount	Total \$/Unit	Subs Amount	Other Amount	Grand Total
Project D	DBA CONTRACTOR OF THE PROPERTY												
01 - GEN	IERAL REQUIREMENTS												
OT - OLI	ALIVAE NE QUINEWIO												
01200 - (	General equipment rental												
	Trench box, 9500 lbs, 8'x 20'	1	Day	\$0.00	\$0.00	\$0.00	\$0.00	\$240.00	\$240.00	\$240 / Day	\$0.00	\$0.00	\$240.00
	GENERAL REQUIREMENTS Total				\$0.00		\$0.00		\$240.00		\$0.00	\$0.00	\$240.00
00 CITI	E CONSTRUCTION												
02 - 3111	CONSTRUCTION												
02020 - 1	Underground marking tape												
02020	Underground tape, detectable aluminum, 2"	4	Clf	\$2.34	\$8.42	\$3.06	\$11.02	\$0.00	\$0.00	\$5.4 / Clf	\$0.00	\$0.00	\$19.44
										·	·		
02060 - 3	Site demolition												\$0.00
	Site dml, no hauling, pavement removal, bit, 4" thk	130	Sqyd	\$5.29	\$687.70	\$0.00	\$0.00	\$3.49			\$0.00	\$0.00	\$1,141.40
	Asphalt disposal - hauling and disposal fee, 4" thick	130	Sqyd	\$1.00	\$130.00	\$4.70	\$611.00	\$1.32	\$171.60	\$7.02 / Sqyd	\$0.00	\$0.00	\$912.60
02170 - 3	Saw cutting	700	1 61	<b>CO 40</b>	<b>₽045.00</b>	<b>#0.07</b>	<b>\$50.40</b>	<b>60.00</b>	£407.00	DO 04 /1 44	<b>#0.00</b>	<b>#0.00</b>	<b>#500.00</b>
	Saw cutting, asphalt, up to 3" deep Saw cutting, asphalt, after 3" deep; each addl inch of depth	720 720	Lnft Lnft	\$0.48 \$0.82	\$345.60 \$590.40	\$0.07 \$0.30	\$50.40 \$216.00	\$0.26 \$0.44		\$0.81 / Lnft \$1.56 / Lnft	\$0.00 \$0.00	\$0.00 \$0.00	\$583.20 \$1,123.20
	Saw cutting, aspiralit, after 3 deep, each addition of depth	720	LIIIU	φυ.ο∠	\$590.40	\$0.50	\$210.00	φυ.44	φ310.00	\$1.36 / LIIII	\$0.00	\$0.00	\$1,123.20
02320 - 1	Backfill												
	Backfill, dozer backfilling, trench, up to 300' haul, no compaction	444	Cuyd	\$0.80	\$355.52	\$0.00	\$0.00	\$1.28	\$568.83	\$2.08 / Cuyd	\$0.00	\$0.00	\$924.35
	3, , . , . , . , , , , ,		, -	*****	•		,	*	,	,,			
02340 - 1	Bedding												
	Bedding, crushed stone 3/4" to 1/2"	265	Cuyd	\$8.47	\$2,244.55	\$32.03	\$8,487.95	\$1.89	\$500.85	\$42.39 / Cuyd	\$0.00	\$0.00	\$11,233.35
02360 - 0	Compaction												
	Compaction, trench, walk behind, vib. plate, bedding	228	Cuyd	\$1.90	\$433.01	\$0.00	\$0.00	\$0.51			\$0.00	\$0.00	\$549.24
	Compaction, trench, walk behind, vib. plate, subgrade	37 400	Cuyd	\$1.90	\$69.73	\$0.00 \$0.00	\$0.00	\$0.51	\$18.72		\$0.00 \$0.00	\$0.00 \$0.00	\$88.45
	Compaction, trench, walk behind, vib. plate, backfill	400	Cuyd	\$1.90	\$760.00	\$0.00	\$0.00	\$0.51	\$204.00	\$2.41 / Cuyd	\$0.00	\$0.00	\$964.00
02450 - 1	Excavating, trench												
02 100	Excavate trench, no sht or dewtrg, 4'-6' D, 1-1/2 CY hyd bac	693	Cuyd	\$1.95	\$1,351.94	\$0.00	\$0.00	\$1.42	\$984.49	\$3.37 / Cuyd	\$0.00	\$0.00	\$2,336.42
	=		, -	******	<b>\$</b> 1,001101	70.00	<b>V</b> 0.00	****	700	<del>voice, coje</del>	******	77.77	<b>4</b> =,000
02460 - I	Hauling												
	Hauling, LCY, no loading, 20 c.y. dump truck, 30 MI RT, 0.33 lds/hr	422	Cuyd	\$5.95	\$2,512.09	\$0.00	\$0.00	\$10.40			\$0.00	\$0.00	\$6,902.97
	Loading Trucks, F.E. Loader, 3 C.Y	422	Cuyd	\$0.74	\$312.43	\$0.00	\$0.00	\$1.24	\$523.53	\$1.98 / Cuyd	\$0.00	\$0.00	\$835.96
00570													
02570 - 0	Catch basins or manholes	-	F	#000 00	<b>#4.000.00</b>	#0.000.00	<b>#</b> 40,000,00	<b>60.00</b>	Ф2 22	#0000 / F	ФС 22	<b>#0.00</b>	<b>#40.000.00</b>
	Junction structure	2	Each	\$680.00	\$1,360.00	\$6,000.00	\$12,000.00	\$0.00	\$0.00	\$6680 / Each	\$0.00	\$0.00	\$13,360.00
02600 - 1	Base course												
02000 - 1	Base course, large areas, crushed 3/4" stone, compacted to 9" deep	130	Sqyd	\$0.80	\$104.00	\$8.06	\$1,047.80	\$1.02	\$132.60	\$9.88 / Sqyd	\$0.00	\$0.00	\$1,284.40
	and the second s		-4,4	ψ0.00	ψ.σσσ	ψ0.00	ţ.,c	Ψυ	Ų.02.00	######################################	\$5.00	ψο.ου	Ţ.,E0 N40
02610 - /	Asphalt concrete pavement												
	Asphaltic conc pavement, pavement replacement over trench, 4"	130	Sqyd	\$35.00	\$4,550.00	\$18.00	\$2,340.00	\$2.98	\$387.40	\$55.98 / Sqyd	\$0.00	\$0.00	\$7,277.40
02900 - 1	Pot Holing			0050	<b>#4.005.</b>	00.55	<b>A</b> 0	A05	0445-55	0005 / 5	05	00.55	A
	Pot Holing - pipe lines	4	Each	\$250.00	\$1,000.00	\$0.00	\$0.00	\$35.00	\$140.00	\$285 / Each	\$0.00	\$0.00	\$1,140.00
	SITE CONSTRUCTION Total				\$16,815.39		\$24,764.17		\$9,096.82		\$0.00	\$0.00	\$50,676.38
	SITE CONSTRUCTION TOTAL				φ10,010.39		φ24,704.17		φ9,090.82		φυ.υυ	φυ.00	φυυ,υ/0.38

Item	Item Description	Quantity	Unit	Labor \$/Unit	Labor Amount	Materials \$/Unit	Materials Amount	Equip \$/Unit	Equip Amount	Total \$/Unit	Subs Amount	Other Amount	Grand Total
15 - ME	CHANICAL												
15090 -	Pipe,drng&sewage,concret												
	Piping, drainage & sewage, RCP, class 3, no gaskets, 30" dia	360	Lnft	\$32.48	\$11,692.80	\$43.00	\$15,480.00	\$3.22	\$1,159.20	\$78.7 / Lnft	\$0.00	\$0.00	\$28,332.00
15395 -	Cleanouts												
	Cleanouts, flr type, rnd top, xtra hvy dty, 30" pipe size	2	Each	\$791.91	\$1,583.82	\$1,308.00	\$2,616.00	\$0.00	\$0.00	\$2099.91 / Each	\$0.00	\$0.00	\$4,199.82
	MECHANICAL Total				\$13,276.62		\$18,096.00		\$1,159.20		\$0.00	\$0.00	\$32,531.82
	Project DBA Total				\$30,092.01		\$42,860.17		\$10,496.02		\$0.00	\$0.00	\$83,448.20
	Grand Total				\$30,092.01		\$42,860.17		\$10,496.02		\$0.00	\$0.00	\$83,448.20

Category	Percent	Amount
Labor	36.06%	\$30,092
Material	51.36%	\$42,860
Equipment	12.58%	\$10,496
Subcontractor	0.00%	\$0
Other	0.00%	\$0
Net Costs		\$83,448
Labor Mark-up	18.00%	\$5,417
Material Mark-up	15.00%	\$6,429
Subcontractor Mark-up	5.00%	\$0
Equipment Mark-up	15.00%	\$1,574
Sales tax (material)	7.75%	\$3,322
Sales tax (equipment)	7.75%	\$813
Material Shipping & Handling	2.50%	\$1,072
Worker's Travel/Subsistence	0.10%	\$30
Subtotal		\$102,105
Contractor General Conditions	12.00%	\$12,253
Subtotal		\$114,357
Earthquake Insurance	0.10%	\$114
Subtotal		\$114,472
Construction Contingency	25.00%	\$28,618
Subtotal		\$143,090
Bldg Risk, Liability Auto Ins.	2.00%	\$2,862
Subtotal		\$145,952
Performance Bond	1.00%	\$1,460
Payment Bond	1.00%	\$1,460
Subtotal		\$148,871
Engineering Fee	10.00%	\$8,345
Environmental Permitting (Lump Sum)	-	\$10,000
Total Estimate		\$167,215



Project Number:: 128290

Client:: City of Carlsbad

Estimator(s):: JW / DG

Estimating Office:: Walnut Creek

Estimate Issue Number:: 01

Estimate Original Issue Date:: 3/14/2006

Estimate Revision Number:: 04

Estimate Revision Date:: 6/27/2008

BC Project Manager:: Chris Herencia
Estimate QA/QC Reviewer:: Bob Ferguson
Estimate QA/QC Date:: 6/27/2008

PROJECT LOCATION / PROCESS AREA

**Project DBB** 

Item	Item Description	Quantity	Unit	Labor \$/Unit	Labor Amount	Materials \$/Unit	Materials Amount	Equip \$/Unit	Equip Amount	Total \$/Unit	Subs Amount	Other Amount	Grand Total
Project D	DBB .												
01 - GEN	IERAL REQUIREMENTS												
04000	2												
01200 - 0	General equipment rental Trench box, 7200 lbs, 6'x 20'	10	Davi	\$0.00	\$0.00	\$0.00	\$0.00	\$141.60	\$1,416.00	£4.44.6 / Day	\$0.00	\$0.00	\$1,416.00
	Trench Plates allowance	10	Day Mo	\$0.00	\$0.00	\$0.00	\$0.00	\$900.00	\$1,416.00	\$141.6 / Day \$900 / Mo			\$1,416.00
	THE ICH Flates allowance	<u>'</u>	IVIO	φυ.υυ	φυ.υυ	φυ.υυ	φυ.υυ	φ900.00	φ900.00	\$900 / IVIC	\$0.00	φ0.00	φ900.00
	GENERAL REQUIREMENTS Total				\$0.00		\$0.00		\$2,316.00		\$0.00	\$0.00	\$2,316.00
02 - SITE	CONSTRUCTION												
	Underground marking tape												
	Underground tape, detectable aluminum, 2"	7	Clf	\$2.34	\$16.85	\$3.06	\$22.03	\$0.00	\$0.00	\$5.4 / Clf	\$0.00	\$0.00	\$38.88
02060 - 3	Site demolition												
	Site dml, no hauling, pavement removal, bit, 4" to 6" thick	482		\$5.29	\$2,549.78	\$0.00	\$0.00	\$3.49	\$1,682.18	\$8.78 / Sqyd			\$4,231.96
	Asphalt disposal - hauling and disposal fee, 4" thick	482	Sqyd	\$1.00	\$482.00	\$4.70	\$2,265.40	\$1.32	\$636.24	\$7.02 / Sqyd	\$0.00	\$0.00	\$3,383.64
02170 - 3	Saw cutting												
	Saw cutting, asphalt, up to 3" deep	1450		\$0.48	\$696.00	\$0.07	\$101.50	\$0.26	\$377.00	\$0.81 / Lnft	\$0.00		\$1,174.50
	Saw cutting, asphalt, after 3" deep; each addl inch of depth	1450	Lnft	\$0.82	\$1,189.00	\$0.30	\$435.00	\$0.44	\$638.00	\$1.56 / Lnft	\$0.00	\$0.00	\$2,262.00
00040	Fig. 2004												
02310 - 1	Fine grade Fine grade, fine grade granular base for sidewalks and bikeways	482	Sqyd	\$1.06	\$510.92	\$0.00	\$0.00	\$0.15	\$72.30	\$1.21 / Sqyd	\$0.00	\$0.00	\$583.22
	rine grade, line grade granular base for sidewarks and bikeways	462	Sqya	\$1.00	\$510.92	\$0.00	\$0.00	\$0.15	\$72.30	\$1.21 / Sqy0	\$0.00	\$0.00	\$383.ZZ
02340 - 1	Bedding												
02340 - 1	Bedding, crushed stone 3/4" to 1/2"	530	Cuyd	\$8.47	\$4,489.10	\$32.03	\$16,975.90	\$1.89	\$1,001.70	\$42.39 / Cuyd	\$0.00	\$0.00	\$22,466.70
	Bedding, crushed stone 3/4" to 1/2"	577		\$8.47	\$4,887.19	\$32.03	\$18,481.31	\$1.89	\$1,090.53	\$42.39 / Cuyo			\$24,459.03
	podding, ordened otene of the 1/2	0	Cuju	ψο	ψ1,001110	<b>\$02.00</b>	\$10,101.01	ψσ	ψ1,000.00	ψ .2.00 / Oujo	ψ0.00	ψ0.00	Ψ2 1, 100.00
02360 - 0	Compaction												
	Compaction, walk behind, vibrating roller 24" W, 6" lifts, 2 passes	440	Cuyd	\$1.90	\$836.00	\$0.00	\$0.00	\$0.51	\$224.40	\$2.41 / Cuyd	\$0.00	\$0.00	\$1,060.40
	Compaction, rammer tamper, 6" to 11", 4" lifts, 2 passes	73		\$2.93	\$214.77	\$0.00	\$0.00	\$0.78	\$57.17	\$3.71 / Cuyd	\$0.00	\$0.00	\$271.94
	Compaction, rammer tamper, 6" to 11", 4" lifts, 2 passes	456	Cuyd	\$2.93	\$1,335.49	\$0.00	\$0.00	\$0.78	\$355.52	\$3.71 / Cuyd	\$0.00	\$0.00	\$1,691.02
02450 - I	Excavating, trench												
	Excavate trench, cont ftg, no sht or dewtrg, 4'-6' D, 1-1/2 CY hyd bac	1027	Cuyd	\$1.95	\$2,002.65	\$0.00	\$0.00	\$1.42	\$1,458.34	\$3.37 / Cuyd	\$0.00	\$0.00	\$3,460.99
02460 - I	0												
	Hauling, LCY, no loading, 20 c.y. dump truck, 30 MI RT, 0.33 lds/hr	1181	,	\$5.95	\$7,026.95	\$0.00	\$0.00	\$10.40	\$12,282.40	\$16.35 / Cuyo		****	\$19,309.35
	Loading Trucks, F.E. Loader, 3 C.Y	1181	,-	\$0.74	\$873.94	\$0.00	\$0.00	\$1.24	\$1,464.44	\$1.98 / Cuyd		****	\$2,338.38
	Disposal fee	59	Trk	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$105 / Trk	\$0.00	\$6,200.25	\$6,200.25
02400	Erosion control												
02490 - I	Erosion control Erosion control allowance:	- 1	Lsum	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$2614 / Lsum	\$0.00	\$2,614.00	\$2,614.00
	LIUSION CONTION ANOWANCE.		LSuffi	φυ.00	φυ.υυ	φυ.00	φυ.υυ	φυ.00	φυ.υυ	φ2014 / LSUII	φ0.00	Φ∠,014.00	φ∠,014.00
02570 - 0	Catch basins or manholes												
	Catch basins or manholes, concrete, precast, 8' I.D., 8' deep	3	Each	\$1,587.50	\$4,762.50	\$3,133.31	\$9,399.93	\$354.40	\$1,063.20	\$5075.21 / Each	\$0.00	\$0.00	\$15,225.63
	CB or manholes, conc, slab tops, precast, 8" thick, 4' dia	3		\$158.75	\$476.25	\$201.00	\$603.00	\$35.44		\$395.19 / Each	\$0.00		\$1,185.57
	Catch bsns or manholes, frs and covs, hvy traffic, 24 diam, 400 lb.	3		\$162.82	\$488.46	\$260.00	\$780.00	\$36.35	\$109.05	\$459.17 / Each			\$1,377.51
	CB or manholes, inverts, single channel brick, concrete	3	Each	\$144.00	\$432.00	\$100.00	\$300.00	\$0.00	\$0.00	\$244 / Each	\$0.00		\$732.00
	Catch basins or manholes, steps, standard sizes, aluminum	10		\$9.66	\$96.60	\$26.50	\$265.00	\$0.00	\$0.00	\$36.16 / Each	\$0.00	\$0.00	\$361.60
	Junction structure	1	Each	\$680.00	\$680.00	\$6,000.00	\$6,000.00	\$0.00	\$0.00	\$6680 / Each	\$0.00	\$0.00	\$6,680.00
													-
02610 - 7	Asphalt concrete pavement												
	Asphaltic conc pavement, pavement replacement over trench, 4"	482	Sqyd	\$35.00	\$16,870.00	\$18.00	\$8,676.00	\$2.98	\$1,436.36	\$55.98 / Sqyd	\$0.00	\$0.00	\$26,982.36

Item	Item Description	Quantity	Unit	Labor \$/Unit	Labor Amount	Materials \$/Unit	Materials Amount	Equip \$/Unit	Equip Amount	Total \$/Unit	Subs Amount	Other Amount	Grand Total
02640 -	Lines on pav't												
	Lines on pvmt, acrylic waterborne, white or yellow, 4" wide	720	Lnft	\$0.12	\$86.40	\$0.17	\$122.40	\$0.08	\$57.60	\$0.37 / Lnft	\$0.00	\$0.00	\$266.40
02840 -	Landscaping												
	Landscaping Allowance	1	Lsum	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$5000 / Lsum	\$5,000.00	\$0.00	\$5,000.00
	Traffic Control Allowance: 2 flaggers, 15' pipe/hr	1	Lsum	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$4878 / Lsum	\$0.00	\$4,878.00	\$4,878.00
02900 -	Pot Holing												
	Pot Holing - pipe lines	28	Each	\$250.00	\$7,000.00	\$0.00	\$0.00	\$35.00	\$980.00	\$285 / Each	\$0.00	\$0.00	\$7,980.00
	SITE CONSTRUCTION Total				\$58,002.85		\$64,427.47		\$25,092.76		\$5,000.00	\$13,692.25	\$166,215.33
03 - CO	 												
03330 -	Patching concrete												
	80 Patching conc, wall, wall penetration, non-shrink grout, 24" hole	2	Cuyd	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$1000 / Cuyd	\$0.00	\$2,000.00	\$2,000.00
	CONCRETE Total				\$0.00		\$0.00		\$0.00		\$0.00	\$2,000.00	\$2,000.00
15 - ME	 CHANICAL												
15090 -	Pipe,drng&sewage,concret												
	Piping, drainage & sewage, RCP, class 3, no gaskets, 30" dia	720	Lnft	\$32.48	\$23,385.60	\$43.00	\$30,960.00	\$3.22	\$2,318.40	\$78.7 / Lnft	\$0.00	\$0.00	\$56,664.00
	Piping, water dist, conc pipe, gasket, 36" dia	72	Each	\$3.14	\$226.08	\$6.50	\$468.00	\$0.00	\$0.00	\$9.64 / Each	\$0.00	\$0.00	\$694.08
	MECHANICAL Total				\$23,611.68		\$31,428.00		\$2,318.40		\$0.00	\$0.00	\$57,358.08
	Project DBB Total				\$81,614.53		\$95,855.47		\$29,727.16		\$5,000.00	\$15,692.25	\$227,889.41
	1 Tojoot BBB Total				\$51,014.00		\$25,000.41		\$20,727.10		\$3,000.00	<b>\$.3,002.20</b>	<b>4227,000.41</b>
	Grand Total				\$81,614.53		\$95,855.47		\$29,727.16		\$5,000.00	\$15,692.25	\$227,889.41

Category	Percent	Amount
Labor	35.81%	\$81,615
Material	42.06%	\$95,855
Equipment	13.04%	\$29,727
Subcontractor	2.19%	\$5,000
Other	6.89%	\$15,692
Net Costs		\$227,889
Labor Mark-up	18.00%	\$14,691
Material Mark-up	15.00%	\$14,378
Subcontractor Mark-up	5.00%	\$250
Equipment Mark-up	15.00%	\$4,459
Sales tax (material)	7.75%	\$7,429
Sales tax (equipment)	7.75%	\$2,304
Material Shipping & Handling	2.50%	\$2,396
Worker's Travel/Subsistence	0.10%	\$82
Subtotal		\$273,878
Contractor General Conditions	12.00%	\$32,865
Subtotal		\$306,743
Earthquake Insurance	0.10%	\$307
Subtotal		\$307,050
Construction Contingency	25.00%	\$76,763
Subtotal		\$383,813
Bldg Risk, Liability Auto Ins.	2.00%	\$7,676
Subtotal		\$391,489
Performance Bond	1.00%	\$3,915
Payment Bond	1.00%	\$3,915
Subtotal		\$399,319
Engineering Fee	10.00%	\$22,789
Environmental Permitting (Lump Sum)	-	\$7,000
Total Estimate		\$429,108



Project Number:: 128290

Client:: City of Carlsbad

Estimator(s):: JW / DG

Estimating Office:: Walnut Creek

Estimate Issue Number:: 01

Estimate Original Issue Date:: 3/14/2006

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Estimate Revision Date:: 6/27/2008

BC Project Manager:: Chris Herencia
Estimate QA/QC Reviewer:: Butch Matthews

Estimate QA/QC Date:: 6/27/2008

PROJECT LOCATION / PROCESS AREA

Project DFA

Item	Item Description	Quantity	Unit	Labor \$/Unit	Labor Amount	Materials \$/Unit	Materials Amount	Equip \$/Unit	Equip Amount	Total \$/Unit	Subs Amount	Other Amount	Grand Total
Project D	DFA												
01 CEI	 NERAL REQUIREMENTS												
UI - GEI	VERAL REQUIREMENTS												
01200 -	L General equipment rental												
01200-	Trench box, 9500 lbs, 8'x 20'	10	Day	\$0.00	\$0.00	\$0.00	\$0.00	\$240.00	\$2,400.00	\$240 / Day	\$0.00	\$0.00	\$2,400.00
	Trench Plates allowance	1	Mo	\$0.00	\$0.00	\$0.00	\$0.00	\$900.00	\$900.00	\$900 / Mo	\$0.00	\$0.00	\$900.00
	Tronger Lates and Marios			ψ0.00	\$0.00	ψο.σσ	ψ0.00	φοσσισσ	φοσοίσο	φοσογιαίο	ψ0.00	φο.σσ	Ψοσοίος
01210 -	Lifting and hoisting equipment												
	Rent crane truck mounted, hydraulic, 55 ton capacity - Type B	10	Day	\$0.00	\$0.00	\$0.00	\$0.00	\$990.00	\$9,900.00	\$1891.6 / Day	\$901.60	\$0.00	\$10,801.60
							·			,			
	GENERAL REQUIREMENTS Total				\$0.00		\$0.00		\$13,200.00		\$901.60	\$0.00	\$14,101.60
00 0/7	5 COMOTRIJOTION												
02 - 5111	E CONSTRUCTION												
02320 -	l Backfill												
	Backfill, dozer backfilling, trench, up to 300' haul, no compaction	175	Cuyd	\$0.80	\$140.00	\$0.00	\$0.00	\$1.28	\$224.00	\$2.08 / Cuyd	\$0.00	\$0.00	\$364.00
02340 -	Bedding				•								
	Base course, large areas, crushed 3/4" stone, compacted to 9" deep	355	Sqyd	\$0.80	\$284.00	\$8.06	\$2,861.30	\$1.02	\$362.10	\$9.88 / Sqyd	\$0.00	\$0.00	\$3,507.40
00000													
02360 -	Compaction	475	01	£4.00	<b>€</b> 000 50	<b>#</b> 0.00	<b>#0.00</b>	<b>60.54</b>	\$00.0F	CO 44 / O	<b>#0.00</b>	<b>CO.00</b>	£404.70
	Compaction, walk behind, vibrating roller 24" W, 6" lifts, 2 passes	175	Cuyd	\$1.90 \$2.93	\$332.50	\$0.00	\$0.00 \$0.00	\$0.51	\$89.25		\$0.00	\$0.00	\$421.75
	Compaction, rammer tamper, 6" to 11", 4" lifts, bedding	175	Cuyd		\$512.75	\$0.00		\$0.78	\$136.50		\$0.00	\$0.00	\$649.25
	Compaction, rammer tamper, 6" to 11", 4" lifts, backfill	175	Cuyd	\$2.93	\$512.75	\$0.00	\$0.00	\$0.78	\$136.50	\$3.71 / Cuyd	\$0.00	\$0.00	\$649.25
02.450	Excavating, trench												
02430 -	Excavating, trench  Excavate trench, common earth curb, 6'-10' deep, 1-1/2 CY hyd	400	Cuyd	\$1.76	\$704.00	\$0.00	\$0.00	\$1.28	\$512.00	\$3.04 / Cuyd	\$0.00	\$0.00	\$1,216.00
	Excavate trench, common earth curb, 0-10 deep, 1-1/2 C1 flyd	400	Cuyu	ψ1.70	\$704.00	φ0.00	φ0.00	ψ1.20	φ512.00	\$3.04 / Cuyu	φ0.00	φ0.00	\$1,210.00
02460 -	Hauling												
	Hauling, LCY, no loading, 20 c.y. dump truck, 30 MI RT, 0.33 lds/hr	175	Cuyd	\$5.95	\$1,041.25	\$0.00	\$0.00	\$10.40	\$1,820.00	\$16.35 / Cuyd	\$0.00	\$0.00	\$2,861.25
	Loading Trucks, F.E. Loader, 3 C.Y	175	Cuyd	\$0.74	\$129.50	\$0.00	\$0.00	\$1.24	\$217.00		\$0.00	\$0.00	\$346.50
										•			
02470 -	Soil stabilization												
	Soil stabilization, geotextile fabric, woven, H.D., 600 lb. tensile st	50	Sqyd	\$0.32	\$16.00	\$1.85	\$92.50	\$0.00	\$0.00	\$2.17 / Sqyd	\$0.00	\$0.00	\$108.50
02480 -	Rip-rap												
	Backing Material class #1	5	Cuyd	\$17.00	\$85.00	\$60.00	\$300.00	\$20.00	\$100.00		\$0.00	\$0.00	\$485.00
	Rip-rap, mach placed for slp protec, 18" min thick. not grouted	25	Sqyd	\$56.55	\$1,413.75	\$49.55	\$1,238.75	\$12.33	\$308.25	\$118.43 / Sqyd	\$0.00	\$0.00	\$2,960.75
02/100 -	Erosion control												
02 100	Erosion control allowance:	1	Lsum	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$2614 / Lsum	\$0.00	\$2,614.00	\$2,614.00
					,	*****	*		***		*****	7 7 2 2 2	
02570 -	Catch basins or manholes												
	Junction structure	2	Each	\$680.00	\$1,360.00	\$6,000.00	\$12,000.00	\$0.00	\$0.00		\$0.00	\$0.00	\$13,360.00
	CB or manholes, conc, precast, 4' ID, 6' deep	2	Each	\$549.75	\$1,099.50	\$1,050.00	\$2,100.00	\$148.32		\$1748.07 / Each	\$0.00	\$0.00	\$3,496.14
	CB or manholes, conc, slab tops, precast, 8" thick, 4' dia	2	Each	\$158.75	\$317.50	\$201.00	\$402.00	\$35.44		\$395.19 / Each	\$0.00	\$0.00	\$790.38
	Catch bsns or manholes, frs and covs, hvy traffic, 24" diam, 400 lb.	2	Each	\$162.82	\$325.64	\$260.00	\$520.00	\$36.35		\$459.17 / Each	\$0.00	\$0.00	\$918.34
	CB or manholes, inverts, single channel brick, concrete	2	Each	\$144.00	\$288.00	\$100.00	\$200.00	\$0.00	\$0.00		\$0.00	\$0.00	\$488.00
	Catch basins or manholes, steps, standard sizes, aluminum	6	Each	\$9.66	\$57.96	\$26.50	\$159.00	\$0.00	\$0.00	\$36.16 / Each	\$0.00	\$0.00	\$216.96
	OUTE COMOTEURT :				<b>#0.006.46</b>		£40.070.55		<b>#4.045.00</b>		00.00	<b>#0.044.00</b>	<b>#05.450.4</b>
	SITE CONSTRUCTION Total				\$8,620.10		\$19,873.55		\$4,345.82		\$0.00	\$2,614.00	\$35,453.47

Item	Item Description	Quantity	Unit	Labor \$/Unit	Labor Amount	Materials \$/Unit	Materials Amount	Equip \$/Unit	Equip Amount	Total \$/Unit	Subs Amount	Other Amount	Grand Total
15 - MEC	CHANICAL												
15090 - I	Pipe,drng&sewage,concret												
	Piping, drainage & sewage, RCP, class 3, no gaskets, 72" dia	8	Lnft	\$71.46	\$571.68	\$275.00	\$2,200.00	\$7.09	\$56.72	\$353.55 / Lnft	\$0.00	\$0.00	\$2,828.40
	Piping, water dist, conc pipe, gasket, 72" dia	1	Each	\$3.14	\$3.14	\$36.00	\$36.00	\$0.00	\$0.00	\$39.14 / Each	\$0.00	\$0.00	\$39.14
	Piping, drainage & sewage, RCP, class 3, no gaskets, 48" dia	16	Lnft	\$44.66	\$714.56	\$120.00	\$1,920.00	\$4.43	\$70.88	\$169.09 / Lnft	\$0.00	\$0.00	\$2,705.44
	Piping, water dist, conc pipe, gasket, 48" dia	2	Each	\$3.14	\$6.28	\$10.00	\$20.00	\$0.00	\$0.00	\$13.14 / Each	\$0.00	\$0.00	\$26.28
15095 - I	Process Equipment												
	Process Equipment - Vortech Precast	1	Each	\$3,850.00	\$3,850.00	\$50,400.00	\$50,400.00	\$0.00	\$0.00	\$54250 / Each	\$0.00	\$0.00	\$54,250.00
	MECHANICAL Total				\$5,145.66		\$54,576.00		\$127.60		\$0.00	\$0.00	\$59,849.26
		-											•
	Project BLU Total	-			\$13,765.76		\$74,449.55		\$17,673.42		\$901.60	\$2,614.00	\$109,404.33
		-											•
	Grand Total				\$13,765.76		\$74,449.55		\$17,673.42		\$901.60	\$2,614.00	\$109,404.33

Category	Percent	Amount
Labor	12.58%	\$13,766
Material	68.05%	\$74,450
Equipment	16.15%	\$17,673
Subcontractor	0.82%	\$902
Other	2.39%	\$2,614
Net Costs		\$109,404
Lohor Mark up	18.00%	<u></u>
Labor Mark-up		\$2,478
Material Mark-up	15.00%	\$11,167
Subcontractor Mark-up	5.00%	\$45
Equipment Mark-up	15.00%	\$2,651
Sales tax (material)	7.75%	\$5,770
Sales tax (equipment)	7.75%	\$1,370
Material Shipping & Handling	2.50%	\$1,861
Worker's Travel/Subsistence	0.10%	\$14
Subtotal		\$134,760
Contractor General Conditions	12.00%	\$16,171
Subtotal		\$150,931
Earthquake Insurance	0.10%	\$151
Subtotal		\$151,082
Construction Contingency	25.00%	\$37,771
Subtotal		\$188,853
Bldg Risk, Liability Auto Ins.	2.00%	\$3,777
Subtotal		\$192,630
Performance Bond	1.00%	\$1,926
Payment Bond	1.00%	\$1,926
Subtotal		\$196,483
Engineering Fee	10.00%	\$10,940
Environmental Permitting (Lump Sum)	-	\$49,000
Total Fatimata		<b>#050 400</b>
Total Estimate		\$256,423



Project Number:: 128290

Client:: City of Carlsbad

Estimator(s):: JW / DG

Estimating Office:: Walnut Creek

Estimate Issue Number:: 01

Estimate Original Issue Date:: 3/14/2006

Estimate Revision Number:: 04

Estimate Revision Date:: 6/27/2008

BC Project Manager:: Chris Herencia
Estimate QA/QC Reviewer:: Butch Matthews

Estimate QA/QC Date:: 6/27/2008

PROJECT LOCATION / PROCESS AREA

Project DQB

Item	Item Description	Quantity	Unit	Labor \$/Unit	Labor Amount	Materials \$/Unit	Materials Amount	Equip \$/Unit	Equip Amount	Total \$/Unit	Subs Amount	Other Amount	Grand Total
Project D	QB												
01 - GE	NERAL REQUIREMENTS												
04200	Concerd on times at wantal												
	General equipment rental Trench box, 9500 lbs, 8'x 20'	20	Dav	\$0.00	\$0.00	\$0.00	\$0.00	\$240.00	\$4.800.00	\$240 / Day	\$0.00	\$0.00	\$4.800.00
	TIERICH DOX, 9500 lbs, 6 x 20	20	Day	φυ.υυ	\$0.00	\$0.00	\$0.00	\$240.00	\$4,600.00	\$240 / Day	\$0.00	\$0.00	\$4,000.00
	GENERAL REQUIREMENTS Total				\$0.00		\$0.00		\$4,800.00		\$0.00	\$0.00	\$4,800.00
02 - SIT	E CONSTRUCTION				¥		*****		<b>V</b> 1,0000100		*****	*****	<b>V</b> 1,000100
	Underground marking tape												
	Underground tape, detectable aluminum, 2"	25	Clf	\$2.34	\$58.50	\$3.06	\$76.50	\$0.00	\$0.00	\$5.4 / Clf	\$0.00	\$0.00	\$135.00
	Backfill												
	Backfill, dozer backfilling, trench, up to 300' haul, no compaction	3241	Cuyd	\$0.80	\$2,592.56	\$0.00	\$0.00	\$1.28	\$4,148.10	\$2.08 / Cuyd	\$0.00	\$0.00	\$6,740.66
00040	De dellerer												
	Bedding Bedding, crushed stone 3/4" to 1/2"	1000	Cuyd	\$8.47	\$8,470.00	\$32.03	\$32,030.00	\$1.89	\$1,890.00	\$42.39 / Cuyd	\$0.00	\$0.00	\$42,390.00
	Bedding, crushed stone 3/4 to 1/2	1000	Cuya	\$6.47	\$8,470.00	\$32.03	\$32,030.00	\$1.09	\$1,890.00	\$42.39 / Cuyu	\$0.00	\$0.00	\$42,390.00
02360 -	Compaction												
	Compaction, trench, walk behind, vib. plate, bedding	1846	Cuyd	\$1.90	\$3,506.45	\$0.00	\$0.00	\$0.51	\$941.21	\$2.41 / Cuyd	\$0.00	\$0.00	\$4,447.66
	Compaction, trench, walk behind, vib. plate, bedding  Compaction, trench, walk behind, vib. plate, subgrade	278	Cuyd	\$1.90		\$0.00	\$0.00	\$0.51	\$141.68			\$0.00	\$669.50
	Compaction, trench, walk behind, vib. plate, backfill	2917	Cuyd	\$1.90		\$0.00	\$0.00	\$0.51	\$1,487.52		\$0.00	\$0.00	\$7,029.25
	Companion, nonon, name somma, rist plane, sacram	2011	ouyu	ψιισο	φο,σιπισ	ψ0.00	ψ0.00	ψ0.01	<b>\$1,107.02</b>	ψ2, σαγα	ψ0.00	ψ0.00	ψ.,οΣο.Σο
02450 -	Excavating, trench												
	Excavate trench, no sht or dewtrg, 4'-6' D, 1-1/2 CY hyd bac	5417	Cuyd	\$1.95	\$10,562.57	\$0.00	\$0.00	\$1.42	\$7,691.71	\$3.37 / Cuyd	\$0.00	\$0.00	\$18,254.28
	Catch basins or manholes			<b>#</b>	*****		<b>***</b>	00.00		#2000 / F			00.000.00
	Junction structure  Catch basins or manholes, concrete, precast, 6' l.D., 6' deep	1 5	Each Each	\$680.00 \$846.67	\$680.00 \$4,233.35	\$6,000.00 \$1,850.00	\$6,000.00 \$9,250.00	\$0.00 \$189.01	\$0.00	\$6680 / Each \$2885.68 / Each	\$0.00 \$0.00	\$0.00 \$0.00	\$6,680.00 \$14,428.40
	CB or manholes, conc, slab tops, precast, 8" thick, 4' dia	5	Each	\$158.75		\$1,850.00	\$1,005.00	\$35.44		\$395.19 / Each	\$0.00	\$0.00	\$1,975.95
	Catch bsns or manholes, frs and covs, hvy traffic, 24 diam, 400 lb.	5 5	Each	\$162.82		\$260.00	\$1,300.00	\$36.35		\$459.17 / Each	\$0.00	\$0.00	\$2,295.85
	Catch bass or mannoles, frs and covs, nvy traffic, 24 diam, 400 lb.  CB or manholes, inverts, single channel brick, concrete	5	Each	\$102.02		\$100.00	\$500.00	\$0.00	\$0.00		\$0.00	\$0.00	\$1,220.00
	Catch basins or manholes, steps, standard sizes, aluminum	15	Each	\$9.66		\$26.50	\$397.50	\$0.00	\$0.00		\$0.00	\$0.00	\$542.40
	Catori Sasino di Marinolos, Stopo, Staridara Sizos, diaminani	10	Lacii	ψ0.00	ψ144.00	Ψ20.00	ψοσ7.00	ψ0.00	ψ0.00	φοσ. το γ Εασπ	ψ0.00	ψ0.00	ψ0-1210
	SITE CONSTRUCTION Total				\$36,172.98		\$47,356.50		\$17,245.26		\$0.00	\$0.00	\$100,774.74
03 - CO	NCRETE												
	Concrete, ready mix	_								******			
	Headwall	5	Cuyd	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$1000 / Cuyd	\$0.00	\$5,000.00	\$5,000.00
	CONCRETE Total				\$0.00		\$0.00		\$0.00		\$0.00	\$5,000.00	\$5,000.00
	CONCRETE TOTAL				φυ.υυ		φυ.υυ		φυ.υυ		\$0.00	\$5,000.00	\$5,000.00
15 - MF	CCHANICAL												
/O IVIL	5.7.1.1.5.1.E												
15090 -	Pipe,drng&sewage,concret												
	Piping, drainage & sewage, RCP, class 3, no gaskets, 36" dia	2500	Lnft	\$39.70	\$99,250.00	\$73.00	\$182,500.00	\$3.94	\$9,850.00	\$116.64 / Lnft	\$0.00	\$0.00	\$291,600.00
	Piping, drainage & sewage, RCP, class 3, no gaskets, 36" dia	250	Lnft	\$39.70	\$9,925.00	\$73.00	\$18,250.00	\$3.94	\$985.00	\$116.64 / Lnft	\$0.00	\$0.00	\$29,160.00
	MECHANICAL Total				\$99,250.00		\$182,500.00		\$9,850.00		\$0.00	\$0.00	\$291,600.00
	Desired DOD Total				£425,420,00		\$220.056.50		#24 005 00		<b>#</b> 0.00	\$5,000.00	£400 474 74
	Project DQB Total				\$135,422.98		\$229,856.50		\$31,895.26		\$0.00	\$5,000.00	\$402,174.74
	Grand Total				\$135,422,98		\$229.856.50		\$31.895.26		\$0.00	\$5.000.00	\$402,174,74

Category	Percent	Amount
Labor	33.67%	\$135,423
Material	57.15%	\$229,857
Equipment	7.93%	\$31,895
Subcontractor	0.00%	\$0
Other	1.24%	\$5,000
Net Costs		\$402,175
Labor Mark-up	18.00%	\$24,376
Material Mark-up	15.00%	\$34,478
Subcontractor Mark-up	5.00%	\$0
Equipment Mark-up	15.00%	\$4,784
Sales tax (material)	7.75%	\$17,814
Sales tax (equipment)	7.75%	\$2,472
Material Shipping & Handling	2.50%	\$5,746
Worker's Travel/Subsistence	0.10%	\$135
Subtotal		\$491,981
Contractor General Conditions	12.00%	\$59,038
Subtotal		\$551,019
Earthquake Insurance	0.10%	\$551
Subtotal		\$551,570
Construction Contingency	20.00%	\$110,314
Subtotal		\$661,884
Bldg Risk, Liability Auto Ins.	2.00%	\$13,238
Subtotal		\$675,122
Performance Bond	1.00%	\$6,751
Payment Bond	1.00%	\$6,751
Subtotal		\$688,624
Engineering Fee	10.00%	\$40,217
Environmental Permitting (Lump Sum)	-	\$17,000
Total Estimate		\$745,842



Project Number:: 128290

Client:: City of Carlsbad

Estimator(s):: JW / DG

Estimating Office:: Walnut Creek

Estimate Issue Number:: 01

Estimate Original Issue Date:: 3/14/2006

Estimate Revision Number:: 04

Estimate Revision Date:: 6/27/2008

BC Project Manager:: Chris Herencia
Estimate QA/QC Reviewer:: Butch Matthews

Estimate QA/QC Date:: 6/27/2008

PROJECT LOCATION / PROCESS AREA

Project DH

Item	Item Description	Quantity	Unit	Labor \$/Unit	Labor Amount	Materials \$/Unit	Materials Amount	Equip \$/Unit	Equip Amount	Total \$/Unit	Subs Amount	Other Amount	Grand Total
Project D	DH .												
02 - SIT	ECONSTRUCTION												
20222	0% 1 197												
02060 -	Site demolition	4	A	\$1,758.00	\$2.004.12	\$0.00	\$0.00	<b>#0.000.00</b>	\$4.208.88	\$5450 / Acre	\$0.00	\$0.00	<b>#0.040.00</b>
	Site demo, Area vegetation removal	1	Acre	\$1,758.00	\$2,004.12	\$0.00	\$0.00	\$3,692.00	\$4,208.88	\$5450 / Acre	\$0.00	\$0.00	\$6,213.00
02330 -	Backfill, structural												
02000	Backfill, side slope fill	405	Cuyd	\$0.60	\$242.74	\$0.00	\$0.00	\$1.20	\$486.27	\$1.8 / Cuyd	\$0.00	\$0.00	\$729.01
	7		,	,	,	*	*	, ,	,		***	,,,,,,	*
02360 -	Compaction												
	Compaction, rammer tamper, 6" to 11", 4" lifts, backfill	2750	Cuyd	\$2.93	\$8,057.50	\$0.00	\$0.00	\$0.78	\$2,145.00	\$3.71 / Cuyd	\$0.00	\$0.00	\$10,202.50
02410 -	Excavation, bulk, scrapers			*						** ** **			
	Excavation, self prop scraper, 14 CY 1/4 push dozer	2500	Cuyd	\$1.29	\$3,225.00	\$0.00	\$0.00	\$5.19	\$12,975.00	\$6.48 / Cuyd	\$0.00	\$0.00	\$16,200.00
02430 -	Fill												
02430	Fill, spread fill, with dozer	2750	Cuyd	\$0.72	\$1,980.00	\$0.00	\$0.00	\$1.15	\$3,162.50	\$1.87 / Cuyd	\$0.00	\$0.00	\$5,142.50
	- III, Sp. Saa IIII, III.II 40201	2,00	Cuju	Ψ02	ψ1,000.00	ψ0.00	ψο.σσ	ψο	\$0,102.00	ψ1.07 / Cuyu	ψ0.00	ψ0.00	ψο, ι. ι. ε. σο
02460 -	Hauling												
	Backfill, dozer backfilling no compaction	2750	Cuyd	\$0.80	\$2,200.00	\$0.00	\$0.00	\$1.28	\$3,520.00	\$2.08 / Cuyd	\$0.00	\$0.00	\$5,720.00
02480 -	Rip-rap												
	Rip-rap, gabions, galv steel mesh boxes, stone filled, 36" deep	200	Cuyd	\$49.95	\$9,990.00	\$60.56	\$12,112.00	\$16.44	\$3,288.00	\$126.95 / Cuyd	\$0.00	\$0.00	\$25,390.00
02400	Erosion control												
02490	Erosion control, polypropylene mesh, stapled, 6.5 oz./s.y	2052	Sqyd	\$0.47	\$964.52	\$1.40	\$2,873.02	\$0.00	\$0.00	\$1.87 / Sqyd	\$0.00	\$0.00	\$3,837.54
	Erodich control, polypropylana maan, stapica, c.o cens.y	2002	Oqyu	ψ0.47	ψ004.02	Ψ1.40	ΨΣ,010.0Σ	ψ0.00	ψ0.00	φ1.07 7 0494	ψ0.00	ψ0.00	ψο,σοι.σ-ι
02600 -	Base course												
	Area aggregate, crushed 3/4" stone, compacted to 9" deep	4148	Sqyd	\$0.80	\$3,318.40	\$8.06	\$33,432.88	\$1.02	\$4,230.96	\$9.88 / Sqyd	\$0.00	\$0.00	\$40,982.24
						,							
	SITE CONSTRUCTION Total				\$31,982.28		\$48,417.90		\$34,016.61		\$0.00	\$0.00	\$114,416.79
	0 : :007				<b>#</b> 04 000 00		040 447 00		<b>#</b> 04.046.04		<b>#</b> 0.00	<b>#0.00</b>	044444070
	Project DH Total				\$31,982.28		\$48,417.90		\$34,016.61		\$0.00	\$0.00	\$114,416.79
	Grand Total				\$31.982.28		\$48.417.90		\$34.016.61		\$0.00	\$0.00	\$114,416.79
	Office Form				φυ1,302.20		φ <del>40,4</del> 17.30		\$34,U10.01		φ0.00	φυ.υυ	φ11+,+10./3

Category	Percent	Amount
Labor	27.95%	\$31,982
Material	42.32%	\$48,418
Equipment	29.73%	\$34,017
Subcontractor	0.00%	\$0
Other	0.00%	\$0
Net Costs		\$114,417
Labor Mark-up	18.00%	\$5,757
Material Mark-up	15.00%	\$7,263
Subcontractor Mark-up	5.00%	\$0
Equipment Mark-up	15.00%	\$5,102
Sales tax (material)	7.75%	\$3,752
Sales tax (equipment)	7.75%	\$2,636
Material Shipping & Handling	2.50%	\$1,210
Worker's Travel/Subsistence	0.10%	\$32
Subtotal		\$140,170
Contractor General Conditions	12.00%	\$16,820
Subtotal		\$156,990
Earthquake Insurance	0.10%	\$157
Subtotal		\$157,147
Construction Contingency	25.00%	\$39,287
Subtotal		\$196,434
Bldg Risk, Liability Auto Ins.	2.00%	\$3,929
Subtotal		\$200,363
Performance Bond	1.00%	\$2,004
Payment Bond	1.00%	\$2,004
Subtotal		\$204,370
Engineering Fee	10.00%	\$11,442
Environmental Permitting (Lump Sum)	-	\$17,000
Total Estimate		\$232,812



Project Number:: 128290

Client:: City of Carlsbad

Estimator(s):: JW / DG

Estimating Office:: Walnut Creek

Estimate Issue Number:: 01

Estimate Original Issue Date:: 3/14/2006

Estimate Revision Number:: 04

Estimate Revision Date:: 6/27/2008

BC Project Manager:: Chris Herencia
Estimate QA/QC Reviewer:: Butch Matthews

Estimate QA/QC Date:: 6/27/2008

PROJECT LOCATION / PROCESS AREA

Project DZ

Item	Item Description	Quantity	Unit	Labor \$/Unit	Labor Amount	Materials \$/Unit	Materials Amount	Equip \$/Unit	Equip Amount	Total \$/Unit	Subs Amount	Other Amount	Grand Total
Project D	Z												
02 - SIT	E CONSTRUCTION												
02210	Fine grade												
	Fine grade under asphalt	333	Sgyd	\$0.26	\$86.58	\$0.00	\$0.00	\$0.21	\$69.93	\$0.47 / Sqyd	\$0.00	\$0.00	\$156.51
	The grade under asphalt	333	Oqyu	Ψ0.20	ψ00.50	ψ0.00	ψ0.00	Ψ0.21	ψ03.33	ψυ.+1 / Oqyu	ψ0.00	ψ0.00	ψ100.01
02360 -	Compaction												
	Compaction, rammer tamper, 6" to 11", 4" lifts, backfill	734	Cuyd	\$2.93	\$2,150.62	\$0.00	\$0.00	\$0.78	\$572.52	\$3.71 / Cuyd	\$0.00	\$0.00	\$2,723.14
02450 -	Excavating, trench												
	Excavate trench, common earth curb, 6'-10' deep, 1-1/2 CY hyd	2000	Cuyd	\$1.76	\$3,520.00	\$0.00	\$0.00	\$1.28	\$2,560.00	\$3.04 / Cuyd	\$0.00	\$0.00	\$6,080.00
02480 -	Rip-rap												
	Rip-rap, energy dissipater	155	Sqyd	\$55.00	\$8,525.00	\$25.00	\$3,875.00	\$18.70	\$2,898.50	\$98.7 / Sqyd	\$0.00	\$0.00	\$15,298.50
02490 -	Erosion control												
02 100	Erosion control, polypropylene mesh, stapled, 6.5 oz./s.y	2052	Sqyd	\$0.47	\$964.52	\$1.40	\$2,873.02	\$0.00	\$0.00	\$1.87 / Sqyd	\$0.00	\$0.00	\$3,837.54
02600 -	Base course												
	Area aggregate, crushed 3/4" stone, compacted to 9" deep	155	Sqyd	\$0.80	\$124.00	\$8.06	\$1,249.30	\$1.02	\$158.10	\$9.88 / Sqyd	\$0.00	\$0.00	\$1,531.40
02840 -	Landscaping												
	Landscaping Allowance:	1	Lsum	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$500 / Lsum	\$500.00		\$500.00
	Traffic Control Allowance:	1	Lsum	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$500 / Lsum	\$0.00	\$500.00	\$500.00
	SITE CONSTRUCTION Total				\$15,370.72		\$7,997.32		\$6,259.05		\$500.00	\$500.00	\$30,627.09
03 - COI	NCRETE												
00450	Concrete, ready mix												
	10'x12' RCB Culvert (2)	375	Cuyd	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$1000 / Cuyd	\$0.00	\$375,000.00	\$375,000.00
	Headwall	5/5	Cuyd	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$1000 / Cuyd			\$5,000.00
	Headwall	5	Cuyd	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$1000 / Cuyd			\$5,000.00
	CONCRETE Total				\$0.00		\$0.00		\$0.00		\$0.00	\$385,000.00	\$385,000.00
	Project DZ Total				\$15,370.72		\$7,997.32		\$6,259.05		\$500.00	\$385,500.00	\$415,627.09
					\$15,370.72		\$7,997.32		\$6,259.05		\$500.00	\$385,500.00	\$415,627.09

Category	Percent	Amount
Labor	3.70%	\$15,371
Material	1.92%	\$7,997
Equipment	1.51%	\$6,259
Subcontractor	0.12%	\$500
Other	92.75%	\$385,500
Net Costs		\$415,627
Labor Mark-up	18.00%	\$2,767
Material Mark-up	15.00%	\$1,200
Subcontractor Mark-up	5.00%	\$25
Equipment Mark-up	15.00%	\$939
Sales tax (material)	7.75%	\$620
Sales tax (equipment)	7.75%	\$485
Material Shipping & Handling	2.50%	\$200
Worker's Travel/Subsistence	0.10%	\$15
Subtotal		\$421,877
Contractor General Conditions	12.00%	\$50,625
Subtotal		\$472,503
Earthquake Insurance	0.10%	\$473
Subtotal		\$472,975
Construction Contingency	20.00%	\$94,595
Subtotal		\$567,570
Bldg Risk, Liability Auto Ins.	2.00%	\$11,351
Subtotal		\$578,922
Performance Bond	1.00%	\$5,789
Payment Bond	1.00%	\$5,789
Subtotal		\$590,500
Engineering Fee	10.00%	\$41,563
Environmental Permitting (Lump Sum)	•	\$10,000
Total Estimate		\$642,063

				Invento	,							
Item Description	Quantity	Unit	Labor \$/Unit	Labor Amount	Materials \$/Unit	Materials Amount	Equip \$/Unit	Equip Amount	Total \$/Unit	Subs Amount	Other Amount	Grand Total
10'x12' RCB Culvert (2) 12'x5' RCB Culvert	309.40 309.40	Cuyd Cuyd		\$0.00 \$0.00		\$0.00 \$0.00		\$0.00 \$0.00	\$1000 / Cuyd \$1000 / Cuyd		\$1,000.00 \$1,000.00	\$1,000.00 \$1,000.00
3'x6' RCB Culvert 4.3'x5.7' RCB Culvert	170.00	Cuyd Cuyd		\$0.00 \$0.00		\$0.00 \$0.00		\$0.00 \$0.00	\$1000 / Cuyd \$1000 / Cuyd		\$1,000.00 \$1,000.00	\$1,000.00 \$1,000.00
4'x10' RCB Culvert 5-12'x12' RCB Culverts	170.00 170.00	Cuyd Cuyd		\$0.00 \$0.00		\$0.00 \$0.00		\$0.00 \$0.00	\$1000 / Cuyd \$1000 / Cuyd		\$1,000.00 \$1,000.00	\$1,000.00 \$1,000.00
5'x32" RCB Culvert 6'x7' RCB Culvert	170.00	Cuyd Cuyd		\$0.00 \$0.00		\$0.00 \$0.00		\$0.00 \$0.00	\$1000 / Cuyd \$1000 / Cuyd		\$1,000.00 \$1,000.00	\$1,000.00 \$1,000.00
80 Patching conc, wall, wall penetration, non-shrink grout, 24" hole	9.00	Cuyd		\$0.00 \$0.00		\$0.00 \$0.00		\$0.00 \$0.00	\$1000 / Cuyd		\$1,000.00 \$1,000.00	\$1,000.00
Apron wall Area aggregate, crushed 3/4" stone, compacted to 9" deep	8.00 4,148.00	Cuyd Sqyd	\$0.80	\$3,318.40	\$8.06	\$33,432.88	\$1.02	\$4,230.96	\$1000 / Cuyd \$9.88 / Sqyd		\$1,000.00	\$1,000.00 \$40,982.24
Asphalt disposal - hauling and disposal fee, 4" thick Asphaltic conc pavement, pavement replacement over trench, 4" thick	600.00 367.00	Sqyd Sqyd	\$1.00 \$35.00	\$600.00 \$12,845.00	\$4.70 \$18.00	\$2,820.00 \$6,606.00	\$1.32 \$2.98	\$792.00 \$1,093.66	\$7.02 / Sqyd \$55.98 / Sqyd			\$4,212.00 \$20,544.66
Asphaltic conc pavement, pavement replacement over trench, 6" thick Backfill Compaction, walk behind, vibrating roller 24" W, 6" lifts, 2 passes	203.71 11.60	Sqyd Cuyd	\$44.54 \$1.72	\$9,073.24 \$19.95	\$27.00	\$5,500.17 \$0.00	\$3.79 \$0.41	\$772.06 \$4.76	\$75.33 / Sqyd \$2.13 / Cuyd			\$15,345.47 \$24.71
Backfill, dozer backfilling no compaction Backfill, dozer backfilling, trench, no compaction	7,300.00	Cuyd Cuyd	\$0.80 \$0.80	\$0.00 \$5,840.00		\$0.00 \$0.00	\$1.28 \$1.28	\$0.00 \$9,344.00	\$2.08 / Cuyd \$2.08 / Cuyd			\$0.00 \$15,184.00
Backfill, dozer backfilling, trench, no compaction, inlet Backfill, dozer backfilling, trench, no compaction, outlet	11.40 10.40	Cuyd Cuyd	\$0.80 \$0.80	\$9.12 \$8.32		\$0.00 \$0.00	\$1.28 \$1.28	\$14.59 \$13.31	\$2.08 / Cuyd \$2.08 / Cuyd			\$23.71 \$21.63
Backfill, dozer backfilling, trench, up to 300' haul, no compaction	432.00	Cuyd	\$0.80	\$345.60		\$0.00	\$1.28	\$552.96	\$2.08 / Cuyd			\$898.56
Backfill, dozer backfilling, trench, up to 300' haul, no compaction, channel Backfill, dozer backfilling, trench, up to 300' haul, no compaction, outlet	391.00 47.00	Cuyd Cuyd	\$0.80 \$0.80	\$312.80 \$37.60		\$0.00 \$0.00	\$1.28 \$1.28	\$500.48 \$60.16	\$2.08 / Cuyd \$2.08 / Cuyd			\$813.28 \$97.76
Backfill, from stockpile Backfill, side slope fill	140.00 515.00	Cuyd Cuyd	\$0.60 \$0.60	\$84.00 \$309.00		\$0.00 \$0.00	\$0.40 \$1.20	\$56.00 \$619.00	\$1 / Cuyd \$1.8 / Cuyd			\$140.00 \$928.00
Backing Material class #1 Backing Material, 200 Lb	67.00 21.00	Cuyd Cuyd	\$17.00 \$17.00	\$1,139.00 \$357.00	\$60.00 \$60.00	\$4,020.00 \$1,260.00	\$20.00 \$20.00	\$1,340.00 \$420.00	\$97 / Cuyd \$97 / Cuyd			\$6,499.00 \$2,037.00
Base course, large areas, crushed 3/4" stone, compacted to 12" deep	667.00	Sqyd	\$0.87	\$580.29	\$10.76	\$7,176.92	\$1.11	\$740.37	\$12.74 / Sqyd			\$8,497.58
Base course, large areas, crushed 3/4" stone, compacted to 9" deep Base course, large areas, crushed 3/4" stone, compacted to 6" deep	367.00 378.00	Sqyd Sqyd	\$0.80 \$0.73	\$293.60 \$275.94	\$8.06 \$5.41	\$2,958.02 \$2,044.98	\$1.02 \$0.94	\$374.34 \$355.32	\$9.88 / Sqyd \$7.08 / Sqyd			\$3,625.96 \$2,676.24
Base course, roadway, compacted to 12" deep Bedding Compaction, rammer tamper, 6" to 11", 4" lifts, 2 passes	667.00 11.60	Sqyd Cuyd	\$0.87 \$2.93	\$580.29 \$33.99	\$10.76	\$7,176.92 \$0.00	\$1.11 \$0.78	\$740.37 \$9.05	\$12.74 / Sqyd \$3.71 / Cuyd		-	\$8,497.58 \$43.04
Bedding, crushed stone 3/4" to 1/2" Bedding, crushed stone 3/4" to 1/2", inlet	420.90 8.90	Cuyd Cuyd	\$8.47 \$8.47	\$3,565.02 \$75.38	\$32.03 \$32.03	\$13,481.43 \$285.07	\$1.89 \$1.89	\$795.50 \$16.82	\$42.39 / Cuyd \$42.39 / Cuyd			\$17,841.95 \$377.27
Bedding, crushed stone 3/4" to 1/2", outlet	47.00	Cuyd	\$8.47	\$398.09	\$32.03	\$1,505.41	\$1.89	\$88.83	\$42.39 / Cuyd			\$1,992.33
Borrow, bank measure, select granular fill, shovel, 1.5 CY bucket. 1/4 hr delivery Building paper, polyethylene vapor barrier, std, .010" thick, berm	380.00 28.00	Cuyd Cuyd	\$1.25 \$10.95	\$475.00 \$306.60	\$13.25 \$5.35	\$5,035.00 \$149.80	\$3.20 \$0.00	\$1,216.00 \$0.00	\$17.7 / Cuyd \$16.3 / Cuyd			\$6,726.00 \$456.40
Cast -In-Place Box Girter Bridge Catch basins or manholes, concrete, precast, 5' I.D., 8' deep	5,600.00 4	Sqft Each	\$846.67	\$0.00 \$3,386.68	\$1,475.00	\$0.00 \$5,900.00	\$189.01	\$0.00 \$756.04	\$160 / Sqft \$2510.68 / Each		\$160.00	\$160.00 \$10,042.72
Catch basins or manholes, concrete, precast, 6' I.D., 6' deep	6.00 1.00	Each Each	\$846.67 \$1.587.50	\$5,080.02 \$1,587.50	\$1,850.00 \$3,133.31	\$11,100.00 \$3,133.31	\$189.01 \$354.40	\$1,134.06 \$354.40	\$2885.68 / Each \$5075.21 / Each			\$17,314.08 \$5,075.21
Catch basins or manholes, concrete, precast, 8' I.D., 8' deep Catch basins or manholes, steps, standard sizes, aluminum	10.00	Each	\$9.66	\$96.60	\$26.50	\$265.00	\$354.40	\$0.00	\$36.16 / Each			\$361.60
Catch bsns or manholes, curb inlet FR, grate, large 24"x36" heavy dty  Catch bsns or manholes, frs and covs, hvy traffic, 24" diam, 400 lb.	12.00 9.00	Each Each	\$602.88 \$162.82	\$7,234.56 \$1,465.38	\$472.04 \$260.00	\$5,664.48 \$2,340.00	\$36.35	\$0.00 \$327.15	\$1074.92 / Each \$459.17 / Each			\$12,899.04 \$4,132.53
Catch bsns or manholes, frs and covs, hvy traffic, 36" diam, 1150 lb.  CB or manholes, conc, precast, 4' ID, 6' deep	1.00	Each Each	\$423.33 \$549.75	\$423.33 \$1,649.25	\$860.00 \$1,050.00	\$860.00 \$3,150.00	\$94.51 \$148.32	\$94.51 \$444.96	\$1377.84 / Each \$1748.07 / Each			\$1,377.84 \$5,244.21
CB or manholes, conc, slab tops, precast, 8" thick, 4' dia	4.00 9.00	Each Each	\$158.75	\$635.00	\$201.00	\$804.00	\$35.44	\$141.76	\$395.19 / Each			\$1,580.76
CB or manholes, conc, slab tops, precast, 8" thick, 5' dia CB or manholes, conc, slab tops, precast, 8" thick, 8' dia	1.00	Each	\$169.33 \$181.43	\$1,523.97 \$181.43	\$395.00 \$575.00	\$3,555.00 \$575.00	\$37.80 \$40.50	\$340.20 \$40.50	\$602.13 / Each \$796.93 / Each			\$5,419.17 \$796.93
CB or manholes, inverts, single channel brick, concrete CB or manholes, inverts, triple channel, conc	3.00 1.00	Each Each	\$144.00 \$240.32	\$432.00 \$240.32	\$100.00 \$134.00	\$300.00 \$134.00		\$0.00 \$0.00	\$244 / Each \$374.32 / Each			\$732.00 \$374.32
CB/manholes, steps, heavyweight cast iron, 12" x 10-1/2", for all con	6.00	Each Each	\$9.66 \$1,019.00	\$57.96 \$10,190.00	\$23.00 \$1,560.00	\$138.00 \$15,600.00	\$249.00	\$0.00 \$2,490.00	\$32.66 / Each \$2828 / Each		-	\$195.96 \$28,280.00
Cleanouts, flr type, rnd top, xtra hvy dty, 30" pipe size	2.00	Each	\$791.91	\$1,583.82	\$1,308.00	\$2,616.00	φ∠49.00	\$0.00	\$2099.91 / Each			\$4,199.82
Cleanouts, flr type, rnd top, xtra hvy dty, 36" pipe size Cleanouts, flr type, rnd top, xtra hvy dty, 84" pipe size	3.00 6.00	Each Each	\$791.91 \$2,217.00	\$2,375.73 \$13,302.00	\$1,500.00 \$3,659.00	\$4,500.00 \$21,954.00		\$0.00 \$0.00	\$2291.91 / Each \$5876 / Each			\$6,875.73 \$35,256.00
Clear & grub, brush, including stumps Compaction, rammer tamper, 6" to 11", 4" lifts, 2 passes	0.29 73.30	Acre Cuyd	\$1,759.00 \$2.93	\$510.11 \$214.77		\$0.00 \$0.00	\$3,686.00 \$0.78	\$1,068.94 \$57.17	\$5445 / Acre \$3.71 / Cuyd		<b> </b>	\$1,579.05 \$271.94
Compaction, rammer tamper, 6" to 11", 4" lifts, backfill	849.00 634.00	Cuyd	\$2.93	\$2,487.57		\$0.00 \$0.00	\$0.78	\$662.22 \$494.52	\$3.71 / Cuyd \$3.71 / Cuyd			\$3,149.79
Compaction, rammer tamper, 6" to 11", 4" lifts, bedding Compaction, riding, vibrating roller, 6" lifts, side slope fill	515.00	Cuyd Cuyd	\$2.93 \$2.93	\$1,857.62 \$1,508.95		\$0.00	\$0.78 \$0.78	\$401.70	\$3.71 / Cuyd			\$2,352.14 \$1,910.65
Compaction, riding, vibrating roller, 6" lifts, fill  Compaction, struct. or trench, walk behind, vib. plate backfill channel	9,827.00 391.00	Cuyd Cuyd	\$2.93 \$1.90	\$28,793.11 \$742.90		\$0.00 \$0.00	\$0.78 \$0.51	\$7,665.06 \$199.41	\$3.71 / Cuyd \$2.41 / Cuyd			\$36,458.17 \$942.31
Compaction, struct. or trench, walk behind, vib. plate bedding channel Compaction, struct. or trench, walk behind, vib. plate subgrade channel	167.00 111.00	Cuyd Cuyd	\$1.90 \$1.90	\$317.30 \$210.90		\$0.00 \$0.00	\$0.51 \$0.51	\$85.17 \$56.61	\$2.41 / Cuyd \$2.41 / Cuyd			\$402.47 \$267.51
Compaction, trench, walk behind, vib. plate, backfill	2,916.70	Cuyd	\$1.90	\$5,541.73		\$0.00	\$0.51	\$1,487.52	\$2.41 / Cuyd			\$7,029.25
Compaction, trench, walk behind, vib. plate, backfill outlet Compaction, trench, walk behind, vib. plate, bedding	277.00 1,845.50	Cuyd Cuyd	\$1.90 \$1.90	\$526.30 \$3,506.45		\$0.00 \$0.00	\$0.51 \$0.51	\$141.27 \$941.21	\$2.41 / Cuyd \$2.41 / Cuyd			\$667.57 \$4,447.66
Compaction, trench, walk behind, vib. plate, bedding, inlet Compaction, trench, walk behind, vib. plate, bedding, outlet	11.60 41.00	Cuyd Cuyd	\$1.90 \$1.90	\$22.04 \$77.90		\$0.00 \$0.00	\$0.51 \$0.51	\$5.92 \$20.91	\$2.41 / Cuyd \$2.41 / Cuyd			\$27.96 \$98.81
Compaction, trench, walk behind, vib. plate, inlet	10.20	Cuyd Cuyd	\$1.90 \$1.90	\$19.38 \$17.67		\$0.00 \$0.00	\$0.51 \$0.51	\$5.20 \$4.74	\$2.41 / Cuyd \$2.41 / Cuyd			\$24.58 \$22.41
Compaction, trench, walk behind, vib. plate, outlet Compaction, trench, walk behind, vib. plate, subgrade	277.80	Cuyd	\$1.90	\$527.82		\$0.00	\$0.51	\$141.68	\$2.41 / Cuyd			\$669.50
Compaction, trench, walk behind, vib. plate, subgrade outlet Compaction, trench, walk behind, vib. plate, subgrade, inlet	5.00 1.30	Cuyd Cuyd	\$1.90 \$1.90	\$9.50 \$2.47		\$0.00 \$0.00	\$0.51 \$0.51	\$2.55 \$0.66	\$2.41 / Cuyd \$2.41 / Cuyd			\$12.05 \$3.13
Compaction, trench, walk behind, vib. plate, subgrade, outlet Compaction, trench, walk behind, vib Plate	32.00 5,800.00	Cuyd Cuyd	\$1.90 \$1.90	\$60.80 \$11,020.00		\$0.00 \$0.00	\$0.51 \$0.51	\$16.32 \$2,958.00	\$2.41 / Cuyd \$2.41 / Cuyd			\$77.12 \$13,978.00
Compaction, vibratory plate, 8" lifts, common fill	423.00	Cuyd	\$1.90	\$803.70		\$0.00	\$0.51	\$215.73	\$2.41 / Cuyd			\$1,019.43
Compaction, vibratory plate, 8" lifts, select fill, bedding Compaction, walk behind, vibrating pl 18" w, 12" lifts, 4 passes, subgrade	32.00 119.00	Cuyd Cuyd	\$1.90 \$1.90	\$60.80 \$226.10		\$0.00 \$0.00	\$0.51 \$0.51	\$16.32 \$60.69	\$2.41 / Cuyd \$2.41 / Cuyd			\$77.12 \$286.79
Compaction, walk behind, vibrating pl 18" wide, 12" lifts, 4 passes  Compaction, walk behind, vibrating plate 18" wide, backfill	1,638.00 269.00	Cuyd Cuyd	\$1.90 \$1.90	\$3,112.20 \$511.10		\$0.00 \$0.00	\$0.51 \$0.51	\$835.38 \$137.19	\$2.41 / Cuyd \$2.41 / Cuyd			\$3,947.58 \$648.29
Compaction, walk behind, vibrating plate 18" wide, bedding Compaction, walk behind, vibrating plate 18" wide, subgrade	50.00 185.00	Cuyd	\$1.90 \$1.90	\$95.00 \$351.50		\$0.00 \$0.00	\$0.51 \$0.51	\$25.50 \$94.35	\$2.41 / Cuyd \$2.41 / Cuyd			\$120.50 \$445.85
Compaction, walk behind, vibrating roller 24" W, 6" lifts, 2 passes	440.00	Cuyd Cuyd	\$1.90	\$836.00		\$0.00	\$0.51	\$224.40	\$2.41 / Cuyd			\$1,060.40
Concrete Structure (Conceptual) Headwall Concrete Structure (Conceptual) Open Baffle Box	18.00 7.00	Cuyd Cuyd		\$0.00 \$0.00		\$0.00 \$0.00		\$0.00 \$0.00	\$1000 / Cuyd \$1000 / Cuyd		\$1,000.00 \$1,000.00	\$1,000.00 \$1,000.00
Concrete, ready mix, regular weight, 4000 psi Culvert, outlet	74.00 34.00	Cuyd Cuyd		\$0.00 \$0.00	\$120.00	\$8,880.00 \$0.00		\$0.00 \$0.00	\$120 / Cuyd \$1000 / Cuyd		\$1,000.00	\$8,880.00 \$1,000.00
Disposal fee	2.00 801.00	Trk Ton		\$0.00 \$0.00		\$0.00 \$0.00		\$0.00 \$0.00	\$105 / Trk		\$105.00	\$105.00
Dump Charge, typical urban city, fees only, bldg constr mat'ls Elevated slab	32.00	Cuyd		\$0.00		\$0.00		\$0.00	\$33 / Ton \$1000 / Cuyd		\$33.00 \$1,000.00	\$33.00 \$1,000.00
Erosion control allowance:  Erosion control allowance: small site: silt fence, bio bags, no special	1.00 1.00	Lsum Lsum		\$0.00 \$0.00		\$0.00 \$0.00		\$0.00 \$0.00	\$2614 / Lsum \$1536 / Lsum		\$2,614.00 \$1,536.00	\$2,614.00 \$1,536.00
Erosion control allowance:: Erosion control allowance:::	1.00 1.00	Lsum Lsum		\$0.00 \$0.00		\$0.00 \$0.00		\$0.00 \$0.00	\$500 / Lsum \$30000 / Lsum		\$500.00 \$30,000.00	\$500.00 \$30,000.00
Erosion control, hay bales, staked	2,200.00	Inft	\$1.19	\$2,618.00	\$2.25	\$4,950.00	\$0.10	\$220.00	\$3.54 / Inft		ψ30,000.00	\$7,788.00
Erosion control, jute mesh, 100 SY per roll, 4' wide  Erosion control, polypropylene mesh, stapled, 6.5 oz./s.y	2,086.00 2,052.16	Sqyd Sqyd	\$0.48 \$0.47	\$1,001.28 \$964.52	\$0.75 \$1.40	\$1,564.50 \$2,873.02	\$0.12	\$250.32 \$0.00	\$1.35 / Sqyd \$1.87 / Sqyd			\$2,816.10 \$3,837.5 <sup>4</sup>
Erosion control, silt fence, polypropylene, 3' high  Erosion control, silt fence, polypropylene, 3' high, remove	1,800.00 1,800.00	Inft Inft	\$0.80 \$0.80	\$1,440.00 \$1,440.00	\$0.34	\$612.00 \$0.00		\$0.00 \$0.00	\$1.14 / Inft \$0.8 / Inft			\$2,052.00 \$1,440.00
Excavate trench, common earth curb, 6'-10' deep, 1-1/2 CY hyd backhoe  Excavate trench, common earth curb, 6'-10' deep, 1-1/2 CY hyd backhoe	1,540.00 1,540.00	Cuyd Cuyd	\$1.95 \$1.76	\$3,003.00 \$2,710.40		\$0.00 \$0.00	\$1.42 \$1.28	\$2,186.80 \$1,971.20	\$3.37 / Cuyd \$3.04 / Cuyd			\$5,189.80 \$4,681.60
Excavate trench, cont ftg, no sht or dewtrg, 4'-6' D, 1-1/2 CY hyd bac	867.00	Cuyd	\$1.95	\$1,690.65		\$0.00	\$1.42	\$1,231.14	\$3.37 / Cuyd			\$2,921.79
Excavate trench, no sht or dewtrg, 4'-6' D, 1-1/2 CY hyd bac Excavate trench, no sht or dewtrg, 4'-6' D, 1-1/2 CY hyd bac, inlet	5,416.70 21.60	Cuyd Cuyd	\$1.95 \$1.95	\$10,562.57 \$42.12		\$0.00 \$0.00	\$1.42 \$1.42	\$7,691.71 \$30.67	\$3.37 / Cuyd \$3.37 / Cuyd			\$18,254.28 \$72.79
Excavate trench, no sht or dewtrg, 4'-6' D, 1-1/2 CY hyd bac, outlet  Excavating, bulk bank measure, backhoe, hyd, 1-1/2 CY cap. = 100 CY/hr	112.00 516.00	Cuyd Cuyd	\$1.95 \$1.95	\$218.40 \$1,006.20		\$0.00 \$0.00	\$1.42 \$1.42	\$159.04 \$732.72	\$3.37 / Cuyd \$3.37 / Cuyd		<b> </b>	\$377.4 <sup>4</sup> \$1,738.92
Excavating, bulk bank measure, FE loader, whl mtd, 1.5 CY cap = 80 CY  Excavating, structural, mach excav, com earth, hyd backhoe, 1-1/2 CY b	1,864.00 2,245.00	Cuyd Cuyd	\$1.95 \$7.33	\$3,634.80 \$16,455.85		\$0.00 \$0.00	\$1.42 \$5.34	\$2,646.88 \$11,988.30	\$3.37 / Cuyd \$12.67 / Cuyd			\$6,281.68 \$28,444.15
Excavating, structural, mach excav, com earth, hyd backhoe, 2 CY bkt	1,000.00	Cuyd	\$5.28	\$5,280.00		\$0.00	\$6.70	\$6,700.00	\$11.98 / Cuyd			\$11,980.00
Excavating, structural, mach excav, com earth, hyd backhoe, 2 CY bkt, channel Excavating, structural, mach excav, com earth, hyd backhoe, 3 CY	890.00 1,000.00	Cuyd Cuyd	\$5.28 \$5.28	\$4,699.20 \$5,280.00		\$0.00 \$0.00	\$6.70 \$6.70	\$5,963.00 \$6,700.00	\$11.98 / Cuyd \$11.98 / Cuyd			\$10,662.20 \$11,980.00
Excavation, self prop scraper, 14 CY 1/4 push dozer Excavation, self prop scraper, 14 CY 1/4 push dozer, com earth	3,806.40 22,000.00	Cuyd Cuyd	\$1.29 \$1.29	\$4,910.26 \$28,380.00		\$0.00 \$0.00	\$5.19 \$5.19	\$19,755.22 \$114,180.00	\$6.48 / Cuyd \$6.48 / Cuyd		$\vdash$	\$24,665.47 \$142,560.00
Fill, spread dumped material, by dozer, no compaction Fill, spread dumped material, by dozer, no compaction, berm	695.00 74.00	Cuyd Cuyd	\$0.72 \$0.72	\$500.40 \$53.28		\$0.00 \$0.00	\$1.15 \$1.15	\$799.25 \$85.10	\$1.87 / Cuyd \$1.87 / Cuyd		<b></b>	\$1,299.65 \$138.38
Fill, spread fill, with dozer	404.57	Cuyd	\$0.72	\$291.29		\$0.00	\$1.15	\$465.26	\$1.87 / Cuyd			\$756.55
Fine grade under asphalt Fine grade, fine grade granular base for sidewalks and bikeways	367.00 482.00	Sqyd Sqyd	\$0.26 \$1.06	\$95.42 \$510.92		\$0.00 \$0.00	\$0.21 \$0.15	\$77.07 \$72.30	\$0.47 / Sqyd \$1.21 / Sqyd			\$172.49 \$583.22
Fine grade, grade subgrade for base course, roadways Finishing floors, monolithic, machine trowel, for finish floor	1,067.00 6,000.00	Sqyd Sqft	\$0.26 \$0.68	\$277.42 \$4,080.00		\$0.00 \$0.00	\$0.21	\$224.07 \$0.00	\$0.47 / Sqyd \$0.68 / Sqft		$\vdash$	\$501.49 \$4,080.00
Finishing floors, monolithic, screed, float, & hand trowel, channel	4,800.00 12,000.00	Sqft Sqft	\$0.62 \$1.17	\$2,976.00 \$14.040.00	\$0.03	\$0.00 \$0.00 \$360.00		\$0.00 \$0.00	\$0.62 / Sqft \$1.2 / Sqft			\$2,976.00 \$14,400.00
Finishing slabs, break ties, forms & patch voids Finishing walls, carborundum rub, wet rub	6,000.00	Sqft	\$1.17 \$2.13	\$12,780.00	\$0.03 \$0.03	\$180.00		\$0.00	\$2.16 / Sqft			\$12,960.00
Footing Forms in place, SOG, edge forms, 7" to 12" high, wood, channel	32.00 1,216.00	Cuyd Sfca	\$3.99	\$0.00 \$4,851.84	\$0.80	\$0.00 \$972.80		\$0.00 \$0.00	\$1000 / Cuyd \$4.79 / Sfca		\$1,000.00	\$1,000.00 \$5,824.64
Forms in place, SOG, edge forms, over 12", wood Forms in place, walls, job built plyform, to 8' high, below gr	2,012.00 12,000.00	Sfca Sfca	\$3.99 \$7.35	\$8,027.88 \$88,200.00	\$0.80 \$2.59	\$1,609.60 \$31,080.00		\$0.00 \$0.00	\$4.79 / Sfca \$9.94 / Sfca	_		\$9,637.48 \$119,280.00
Forms in place, walls, job built plyform, to 8' high, channel	2,400.00 23,334.00	Sfca	\$7.35	\$17,640.00	\$2.59	\$6,216.00	60.44	\$0.00	\$9.94 / Sfca			\$23,856.00
Grade pad, contour area Grade slopes	6,556.00	Sqyd Sqyd	\$0.55 \$0.55	\$12,833.70 \$3,605.80		\$0.00 \$0.00	\$0.44 \$0.44	\$10,266.96 \$2,884.64	\$0.99 / Sqyd \$0.99 / Sqyd			\$23,100.66 \$6,490.44
Granular fill Granular fill, berm	695.00 74.00	Cuyd Cuyd		\$0.00 \$0.00	\$10.06 \$17.04	\$6,991.70 \$1,260.96	\$0.00	\$0.00 \$0.00	\$10.06 / Cuyd \$17.04 / Cuyd			\$6,991.70 \$1,260.96
Hauling, LCY, no loading, 12 c.y. dump truck, 20 MI Hauling, LCY, no loading, 12 c.y. dump truck, 20 MI RT, 0.4 lds/hr	867.00 616.00	Cuyd Cuyd	\$7.18 \$7.18	\$6,225.06 \$4,422.88	\$3.00 \$3.00	\$2,601.00 \$1,848.00	\$15.45 \$15.45	\$13,392.00 \$9,515.00	\$25.63 / Cuyd \$25.63 / Cuyd		1	\$22,218.06 \$15,785.88
Hauling, LCY, no loading, 12 c.y. dump truck, 20 MI RT, 0.4 lds/hr and disposal fee	1,053.00	Cuyd	\$7.18	\$7,560.54	\$3.00	\$3,159.00	\$15.45	\$16,264.94	\$25.63 / Cuyd			\$26,984.4
Hauling, LCY, no loading, 12 c.y. dump truck, 6 MI RT, 1 lds/hr Hauling, LCY, no loading, 12 CY dump truck, clear & grub	1,400.00 237.00	Cuyd Cuyd	\$10.52 \$4.66	\$14,728.00 \$1,104.42		\$0.00 \$0.00	\$18.95 \$9.74	\$26,529.00 \$2,308.38	\$29.47 / Cuyd \$14.4 / Cuyd			\$41,257.00 \$3,412.80
Hauling, LCY, no loading, 12 CY dump truck, stockpile on site Hauling, LCY, no loading, 20 c.y dump truck, 30 MI RT, 0.33 lds/hr, concrete	140.00 93.00	Cuyd Cuyd	\$4.66 \$5.68	\$652.40 \$528.24		\$0.00 \$0.00	\$9.74 \$9.92	\$1,363.60 \$923.00	\$14.4 / Cuyd \$15.6 / Cuyd	_		\$2,016.0 \$1,451.2
Hauling, LCY, no loading, 20 c.y. dump truck, 20 MI RT, 0.4 lds/hr, channel	499.00 70,200.00	Cuyd	\$5.95	\$2,969.05 \$417,690.00		\$0.00 \$0.00	\$10.40	\$5,189.60 \$730,080.00	\$16.35 / Cuyd			\$8,158.6 \$1,147,770.0
	70,200.00	Cuyd Cuyd	\$5.95 \$5.95	\$136.85		\$0.00	\$10.40 \$10.40	\$239.20	\$16.35 / Cuyd \$16.35 / Cuyd			\$376.0
Hauling, LCY, no loading, 20 c.y. dump truck, 30 MI RT, 0.33 lds/hr Hauling, LCY, no loading, 20 c.y. dump truck, 30 MI RT, 0.33 lds/hr, concrete		Cuyd	\$5.95	\$553.35		\$0.00 \$0.00	\$10.40 \$0.95	\$967.20 \$51,300.00	\$16.35 / Cuyd \$1.53 / Cuyd		$oxed{oxed}$	\$1,520.55 \$82,620.00
Hauling, LCY, no loading, 20 c.y. dump truck, 30 MI RT, 0.33 lds/hr Hauling, LCY, no loading, 20 c.y. dump truck, 30 MI RT, 0.33 lds/hr, concrete Hauling, LCY, no loading, 20 c.y. dump truck, 30 MI RT, 0.33 lds/hr, outlet	93.00 54,000.00	Cuyd	\$0.58	\$31,320.00			Ψ0.00		ψ1.00 / Ouyu			
Hauling, LCY, no loading, 20 c.y. dump truck, 30 MI RT, 0.33 lds/hr Hauling, LCY, no loading, 20 c.y. dump truck, 30 MI RT, 0.33 lds/hr, concrete Hauling, LCY, no loading, 20 c.y. dump truck, 30 MI RT, 0.33 lds/hr, outlet Hauling, LCY, no loading, 50" haul Headwall	54,000.00 3.00	Cuyd		\$0.00	\$2 173 00	\$0.00		\$0.00 \$158.00	\$1000 / Cuyd		\$1,000.00	\$1,000.00 \$9.093.00
Hauling, LCY, no loading, 20 c.y. dump truck, 30 MI RT, 0.33 lds/hr Hauling, LCY, no loading, 20 c.y. dump truck, 30 MI RT, 0.33 lds/hr, concrete Hauling, LCY, no loading, 20 c.y. dump truck, 30 MI RT, 0.33 lds/hr, outlet Hauling, LCY, no loading, 50" haul Headwall Headwall, conc, CIP, 30< skewed wingwall Headwall, conc, CIP, 30< skewed wingwall	54,000.00 3.00 1.00 2.00	Cuyd Each Each	\$0.58 \$6,762.00 \$5,480.00	\$0.00 \$6,762.00 \$10,960.00	\$2,173.00 \$2,173.00	\$0.00 \$2,173.00 \$4,346.00	\$158.00 \$138.00	\$158.00 \$276.00	\$1000 / Cuyd \$9093 / Each \$7791 / Each			\$9,093.00 \$15,582.00
Hauling, LCY, no loading, 20 c.y. dump truck, 30 MI RT, 0.33 lds/hr Hauling, LCY, no loading, 20 c.y. dump truck, 30 MI RT, 0.33 lds/hr, concrete Hauling, LCY, no loading, 20 c.y. dump truck, 30 MI RT, 0.33 lds/hr, outlet  Hauling, LCY, no loading, 50" haul Headwall Headwall Headwall, conc, CIP, 30< skewed wingwall	54,000.00 3.00 1.00	Cuyd Each	\$6,762.00	\$0.00 \$6,762.00		\$0.00 \$2,173.00	\$158.00	\$158.00	\$1000 / Cuyd \$9093 / Each		\$1,000.00 \$1,000.00 \$1,000.00 \$1,000.00	\$9,093.00

n 2	0 "	11.14	Labor	Labor	Materials	Materials	Equip	Equip	Total	Subs	Other	Grand
Item Description	Quantity	Unit	\$/Unit	Amount	\$/Unit	Amount	\$/Unit	Amount	\$/Unit	Amount	Amount	Total
Junction structure manholes, concrete, precast, 8' I.D., 8' deep, Landscaping Allowance	1.00	Each Lsum	\$1,587.50	\$1,587.50 \$0.00	\$3,133.31	\$3,133.31 \$0.00	\$354.40	\$354.40 \$0.00	\$5075.21 / Each \$5000 / Lsum	\$5,000.00		\$5,075.21 \$5,000.00
Landscaping Allowance:	1.00	Lsum		\$0.00		\$0.00		\$0.00	\$5000 / Lsum	\$5,000.00		\$5,000.00
Landscaping Allowance::	1.00	Lsum		\$0.00		\$0.00		\$0.00	\$30000 / Lsum	*******	\$30,000.00	\$30,000.00
Lines on pvmt, acrylic waterborne, white or yellow, 4" wide	925	Lnft	\$0.12	\$111.00	\$0.17	\$157.25	\$0.08	\$74.00	\$0.37 / Lnft			\$342.25
Loading Trucks, F.E. Loader, 3 C.Y., concrete	93.00 616.00	Cuyd	\$0.74	\$68.82 \$455.84		\$0.00 \$0.00	\$1.24	\$115.32 \$763.84	\$1.98 / Cuyd			\$184.14 \$1,219.68
Loading Trucks, F.E. Loader, 3 C.Y Loading Trucks, F.E. Loader, 3 C.Y, channel	499.00	Cuyd Cuyd	\$0.74 \$0.74	\$369.26		\$0.00	\$1.24 \$1.24	\$618.76	\$1.98 / Cuyd \$1.98 / Cuyd			\$988.02
Loading Trucks, F.E. Loader, 3 C.Y, clear & grub	237.00	Cuyd	\$0.74	\$175.38		\$0.00	\$1.24	\$293.88	\$1.98 / Cuyd			\$469.26
Loading Trucks, F.E. Loader, 3 C.Y, concrete	23.00	Cuyd	\$0.74	\$17.02		\$0.00	\$1.24	\$28.52	\$1.98 / Cuyd			\$45.54
Loading Trucks, F.E. Loader, 3 C.Y, outlet	93.00	Cuyd	\$0.74	\$68.82		\$0.00	\$1.24	\$115.32	\$1.98 / Cuyd			\$184.14
Loading Trucks, F.E. Loader, 3 C.Y, stockpile	140.00	Cuyd Lsum	\$0.74	\$103.60 \$0.00		\$0.00 \$0.00	\$1.24	\$173.60	\$1.98 / Cuyd \$500 / Lsum		\$500.00	\$277.20
Misc metals, allowance Painting lines, thermoplastic, white or yellow, 6" wide	1.00 204.00	Lnft	\$0.14	\$28.56		\$0.00	\$0.00	\$0.00 \$0.00	\$0.14 / Lnft		\$500.00	\$500.00 \$28.56
Patching conc, wall, wall penetration, non-shrink grout,	8	Each	\$75.38	\$603.04	\$286.20	\$2,289.60	******	\$0.00	\$361.58 / Each			\$2,892.64
Patching conc, wall, wall penetration, non-shrink grout, 24" hole	2	Each	\$79.82	\$159.64	\$238.50	\$477.00		\$0.00	\$318.32 / Each			\$636.64
Patching conc, wall, wall penetration, non-shrink grout, 30" hole	8	Each	\$75.38	\$603.04	\$238.50	\$1,908.00		\$0.00	\$313.88 / Each			\$2,511.04
Patching conc, wall, wall penetration, non-shrink grout, 42" hole Piping, drainage & sewage, RCP, class 3, no gaskets, 18" dia	18.00 275.00	Each Lnft	\$79.20 \$18.85	\$1,425.60 \$5,183.75	\$240.00 \$32.00	\$4,320.00 \$8,800.00	\$2.18	\$0.00 \$599.50	\$319.2 / Each \$53.03 / Lnft			\$5,745.60 \$14,583.25
Piping, drainage & sewage, RCP, class 3, no gaskets, 10 dia	900.00	Lnft	\$24.50	\$22,050.00	\$35.00	\$31,500.00	\$2.18	\$2,556.00	\$62.34 / Lnft			\$56,106.00
Piping, drainage & sewage, RCP, class 3, no gaskets, 30" dia	925	Lnft	\$32.48	\$30,044.00	\$43.00	\$39,775.00	\$3.22	\$2,978.50	\$78.7 / Lnft			\$72,797.50
Piping, drainage & sewage, RCP, class 3, no gaskets, 36" dia	550.00	Lnft	\$39.70	\$21,835.00	\$73.00	\$40,150.00	\$3.94	\$2,167.00	\$116.64 / Lnft			\$64,152.00
Piping, drainage & sewage, RCP, class 3, no gaskets, 39" dia	800.00	Lnft	\$39.70	\$31,760.00	\$78.00	\$62,400.00	\$3.94	\$3,152.00	\$121.64 / Lnft			\$97,312.00
Piping, drainage & sewage, RCP, class 3, no gaskets, 42" dia Piping, drainage & sewage, RCP, class 3, no gaskets, 48" dia	1,600.00 800.00	Lnft Lnft	\$39.70 \$44.66	\$63,520.00 \$35,728.00	\$95.00 \$120.00	\$152,000.00 \$96,000.00	\$3.94 \$4.43	\$6,304.00 \$3,544.00	\$138.64 / Lnft \$169.09 / Lnft			\$221,824.00 \$135,272.00
Piping, drainage & sewage, RCP, class 3, no gaskets, 48 dia Piping, drainage & sewage, RCP, class 3, no gaskets, 66" dia	150.00	Lnπ Lnft	\$44.66 \$71.46	\$35,728.00	\$120.00	\$96,000.00	\$4.43	\$3,544.00	\$169.09 / Lnit \$328.55 / Lnft			\$135,272.00
Piping, drainage & sewage, RCP, class 3, no gaskets, 72" dia	8.00	Lnft	\$71.46	\$571.68	\$275.00	\$2,200.00	\$7.09	\$56.72	\$353.55 / Lnft			\$2,828.40
Piping, drainage & sewage, RCP, class 3, no gaskets, 84" dia	3,600.00	Lnft	\$125.05	\$450,180.00	\$300.00	\$1,080,000.00	\$12.40	\$44,640.00	\$437.45 / Lnft			\$1,574,820.00
Piping, drainage & sewage, RCP, class 3, no gaskets, 90" dia	600.00	Lnft	\$125.05	\$75,030.00	\$450.00	\$270,000.00	\$12.40	\$7,440.00	\$587.45 / Lnft			\$352,470.00
Piping, storm drain, CMP, plain, 20' lengths, 24" dia, 14 ga	24.00 100.00	Lnft Each	\$14.00	\$336.00 \$314.00	\$17.62	\$422.88 \$450.00	\$1.62	\$38.88 \$0.00	\$33.24 / Lnft \$7.64 / Each			\$797.76 \$764.00
Piping, water dist, conc pipe, gasket, 18" dia Piping, water dist, conc pipe, gasket, 24" dia	70.00	Each	\$3.14 \$3.14	\$314.00	\$4.50 \$4.75	\$332.50		\$0.00	\$7.89 / Each			\$552.30
Piping, water dist, conc pipe, gasket, 30" dia	70.00	Each	\$3.14	\$219.80	\$6.00	\$420.00		\$0.00	\$9.14 / Each			\$639.80
Piping, water dist, conc pipe, gasket, 36" dia	55.00	Each	\$3.14	\$172.70	\$6.50	\$357.50		\$0.00	\$9.64 / Each			\$530.20
Piping, water dist, conc pipe, gasket, 39" dia	80.00	Each	\$3.14	\$251.20	\$9.20	\$736.00		\$0.00	\$12.34 / Each			\$987.20
Piping, water dist, conc pipe, gasket, 42" dia	123.00	Each	\$3.14	\$386.22	\$9.50	\$1,168.50		\$0.00	\$12.64 / Each			\$1,554.72
Piping, water dist, conc pipe, gasket, 48" dia Piping, water dist, conc pipe, gasket, 72" dia	61.00 46.00	Each Each	\$3.14 \$3.14	\$191.54 \$144.44	\$10.00 \$36.00	\$610.00 \$1,656.00		\$0.00 \$0.00	\$13.14 / Each \$39.14 / Each			\$801.54 \$1,800.44
Piping, water dist, conc pipe, gasket, 90" dia	46.00	Each	\$3.14	\$144.44	\$36.00	\$1,656.00		\$0.00	\$39.14 / Each			\$1,800.44
Placing conc, incl vib, slab on grade, 6" thick, pumped	74.00	Cuyd	\$17.45	\$1,291.30	•	\$0.00	\$5.56	\$411.44	\$23.01 / Cuyd			\$1,702.74
Placing conc, incl vib, slab on grade, pumped, channel	59.00	Cuyd	\$17.45	\$1,029.55		\$0.00	\$5.56	\$328.04	\$23.01 / Cuyd			\$1,357.59
Placing conc, incl vib, walls, 8" thick, pumped	74.00	Cuyd	\$32.28	\$2,388.72		\$0.00	\$10.28	\$760.72	\$42.56 / Cuyd			\$3,149.44
Placing conc, incl vib, walls, pumped, channel Pot Holing - pipe lines	45.00 28.00	Cuyd Each	\$32.28 \$250.00	\$1,452.60 \$7,000.00		\$0.00 \$0.00	\$10.28 \$35.00	\$462.60 \$980.00	\$42.56 / Cuyd \$285 / Each			\$1,915.20 \$7,980.00
Pot Holing - pipe lines: 2 per 100'	32.00	Each	\$250.00	\$8,000.00		\$0.00	\$35.00	\$1,120.00	\$285 / Each			\$9,120.00
Pre-cast concrete wall penetration, non-shrink grout, 24" hole	8.00	Each	\$75.00	\$600.00	\$108.00	\$864.00	***************************************	\$0.00	\$183 / Each			\$1,464.00
Pre-cast concrete wall penetration, non-shrink grout, 42" hole	18.00	Each	\$100.00	\$1,800.00	\$240.00	\$4,320.00		\$0.00	\$340 / Each			\$6,120.00
Process Equipment - Vortech Precast	1.00 272.00	Each Lnft	\$3,850.00 \$15.67	\$3,850.00 \$4,262.24	\$50,400.00 \$45.95	\$50,400.00 \$12,498.40	\$0.96	\$0.00	\$54250 / Each		\$19.00	\$54,250.00
Railing, pipe, aluminum, 3 rail, clear anodized Rent crane truck mounted, hydraulic, 55 ton	45.00	Day	\$15.67	\$4,262.24	\$45.95	\$12,498.40	\$990.00	\$261.12 \$44,550.00	\$81.58 / Lnft \$41562 / Day	\$40,572.00	\$19.00	\$17,040.76 \$85,122.00
Rent crane truck mounted, hydraulic, 55 ton capacity	30.00	Day		\$0.00		\$0.00	\$990.00	\$29,700.00	\$28038 / Day	\$27,048.00		\$56,748.00
Rent crane truck mounted, hydraulic, 55 ton capacity - Type B	1.00	Day		\$0.00		\$0.00	\$990.00	\$990.00	\$1891.6 / Day	\$901.60		\$1,891.60
Retaining wall	25.00	Cuyd		\$0.00		\$0.00		\$0.00	\$1000 / Cuyd		\$1,000.00	\$1,000.00
Rip-rap, energy dissipater Rip-rap, gabions, galv steel mesh boxes, stone filled	120.00 100.00	Sqyd Cuyd	\$55.00 \$49.95	\$6,600.00 \$4,995.00	\$25.00 \$60.56	\$3,000.00 \$6,056.00	\$18.70 \$16.44	\$2,244.00 \$1,644.00	\$98.7 / Sqyd \$126.95 / Cuyd			\$11,844.00 \$12,695.00
Rip-rap, gabions, galv steel mesh boxes, stone filled, 36" deep	100.00	Cuyd	\$49.95 \$49.95	\$4,995.00	\$60.56	\$6,056.00	\$16.44	\$1,644.00	\$126.95 / Cuyd \$126.95 / Cuyd			\$12,695.00
Rip-rap, mach placed for slp protec, 18" min thick. not grouted	618.00	Sqyd	\$56.55	\$34,947.90	\$49.55	\$30,621.90	\$12.33	\$7,619.94	\$118.43 / Sqyd			\$73,189.74
Rip-rap, mach placed for slp protec, 18" min thick. not grouted	1,334.00	Sqyd	\$56.55	\$75,437.70	\$49.55	\$66,099.70	\$12.33	\$16,448.22	\$118.43 / Sqyd			\$157,985.62
Rip-rap, machine placed for slope prot, 3/8 to 1/4 CY pieces	52.00	Cuyd	\$37.46	\$1,947.92	\$49.55	\$2,576.60	\$12.33	\$641.16	\$99.34 / Cuyd			\$5,165.68
RT, 0.4 lds/hr and disposal fee	1 112 00	Each	¢ο οο	\$0.00	<b>60.20</b>	\$0.00	CO 44	\$0.00	\$0 / Each			\$0.00
Saw cutting, asphalt, after 3" deep; each addl inch of depth Saw cutting, asphalt, up to 3" deep	1,112.00 1,112.00	Lnft Lnft	\$0.82 \$0.48	\$911.84 \$533.76	\$0.30 \$0.07	\$333.60 \$77.84	\$0.44 \$0.26	\$489.28 \$289.12	\$1.56 / Lnft \$0.81 / Lnft	1	1	\$1,734.72 \$900.72
Sheet piling, steel, no wales, 15' excav., drive, extract & salvage	1,320.00	Sqft	\$14.03	\$18,519.60	\$11.41	\$15,061.20	\$10.60	\$13,992.00	\$36.04 / Sqft			\$47,572.80
Sidewalks, conc, 3000 PSI, CIP w/ 6x6 mesh, broom fin, no basem 4" T	544.00	Sqft	\$2.01	\$1,093.44	\$1.45	\$788.80	\$0.00	\$0.00	\$3.46 / Sqft			\$1,882.24
Sidewalks, conc, 3000 PSI, for bank run gravel base, 4" thick, add	544.00	Sqft	\$0.47	\$255.68	\$0.42	\$228.48	\$0.04	\$21.76	\$0.93 / Sqft			\$505.92
Site demo, Area vegetation removal Site dml, conc7" to 24" thick, rod reinforced	1.14 23.00	Acre Cuyd	\$1,758.00 \$92.56	\$2,004.12 \$2,128.88		\$0.00 \$0.00	\$3,692.00	\$4,208.88 \$1,405.07	\$5450 / Acre \$153.65 / Cuyd			\$6,213.00 \$3,533.95
Site dml, conc7 to 24 thick, rod reinforced Site dml, no hauling, pavement removal, bit, 4" thk	130.00	Sqyd	\$92.56 \$5.29	\$2,128.88		\$0.00	\$61.09 \$3.49	\$1,405.07	\$153.65 / Cuyd \$8.78 / Sqyd			\$3,533.95
Site dml, no hauling, pavement removal, bit, 4" to 6" thick	1,072.00	Sqyd	\$5.29	\$5,670.88		\$0.00	\$3.49	\$3,741.28	\$8.78 / Sqyd			\$9,412.16
Slab on Grade	28.00	Cuyd		\$0.00		\$0.00	\$0.00	\$0.00	\$1000 / Cuyd		\$1,000.00	\$1,000.00
Slab on Grade for roadway	202.00	Cuyd		\$0.00		\$0.00	\$0.00	\$0.00	\$1000 / Cuyd	000	\$1,000.00	\$1,000.00
Slope Landscaping/irrigation Soil stabilization, geotextile fabric, woven, H.D., 600 lb. tensile st	59,000.00 290.00	Sqft	<b>#0.00</b>	\$0.00 \$92.80	£4.05	\$0.00 \$536.50		\$0.00 \$0.00	\$29500 / Sqft \$2.17 / Sqyd	\$29,500.00		\$29,500.00 \$629.30
Struct stl, WF, W 36 x 170	270.00	Sqyd Lnft	\$0.32 \$4.66	\$92.80 \$1,258.20	\$1.85 \$192.44	\$536.50	\$1.87	\$504.90	\$2.17 / Sqya \$198.97 / Lnft			\$53,721.90
Struct stl, WF, W 36 x 171	270.00	Lnft	\$4.66	\$1,258.20	\$192.44	\$51,958.80	\$1.87	\$504.90	\$198.97 / Lnft			\$53,721.90
Subgrade Compaction, rammer tamper, 6" to 11", 4" lifts, 2 passes	11.60	Cuyd	\$2.93	\$33.99		\$0.00	\$0.78	\$9.05	\$3.71 / Cuyd			\$43.04
Traffic Control Allowance	1.00	Lsum		\$0.00		\$0.00		\$0.00	\$30000 / Lsum		\$30,000.00	\$30,000.00
Traffic Control Allowance:	1.00	Lsum Lsum		\$0.00 \$0.00		\$0.00 \$0.00		\$0.00 \$0.00	\$500 / Lsum	1	\$500.00	\$500.00
Traffic Control Allowance: 2 flaggers, 15' pipe/hr Trench box, 7200 lbs, 6'x 20'	1.00	Lsum		\$0.00 \$0.00		\$0.00 \$0.00	\$141.60	\$0.00 \$1,699.20	\$4878 / Lsum \$141.6 / Day		\$4,878.00	\$4,878.00 \$1,699.20
Trench box, 9500 lbs, 8'x 20'	20.00	Day		\$0.00		\$0.00	\$240.00	\$4,800.00	\$240 / Day		1	\$4,800.00
Trench Plates allowance	1.00	Mo		\$0.00		\$0.00	\$900.00	\$900.00	\$900 / Mo			\$900.00
Underground tape, detectable aluminum, 2"	9	Clf	\$2.34	\$21.06	\$3.06	\$27.54		\$0.00	\$5.4 / Clf			\$48.60
Wall, bridge	120	Cuyd	<b>#0.70</b>	\$0.00	64.05	\$0.00		\$0.00	\$1000 / Cuyd		\$1,000.00	\$1,000.00
Water unit Welded wire fabric, 10/10 gage, SOG	1628 20	Gal Csf	\$0.70 \$36.61	\$1,139.60 \$732.20	\$1.05 \$29.41	\$1,709.40 \$588.20		\$0.00 \$0.00	\$1.75 / Gal \$66.02 / Csf			\$2,849.00 \$1,320.40
Welded wire fabric, 10/10 gage, Walls	60	Csf	\$36.61	\$2,196.60	\$29.41	\$1,764.60		\$0.00	\$66.02 / Csf		1	\$3,961.20
Welded wire fabric, sheets, 4 x 4 - W4 x W4 (4 x 4), 85 lb/CSF, channel	12	Csf	\$36.61	\$439.32	\$29.41	\$352.92		\$0.00	\$66.02 / Csf			\$792.24
Wing wall for 7'X11' box culvert	9.15	Cuyd		\$0.00		\$0.00		\$0.00	\$1000 / Cuyd		\$1,000.00	\$1,000.00
Wingwall	1	Lsum		\$0.00		\$0.00	\$0.00	\$0.00	\$154850 / Lsum	I	\$154,850.00	\$154,850.00